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Webinar Series for
Comprehensive Plan Updates

Water Resources Planning

Presented by Kyle Colvin, Karen Jensen, and Lanya Ross
July 21, 2016





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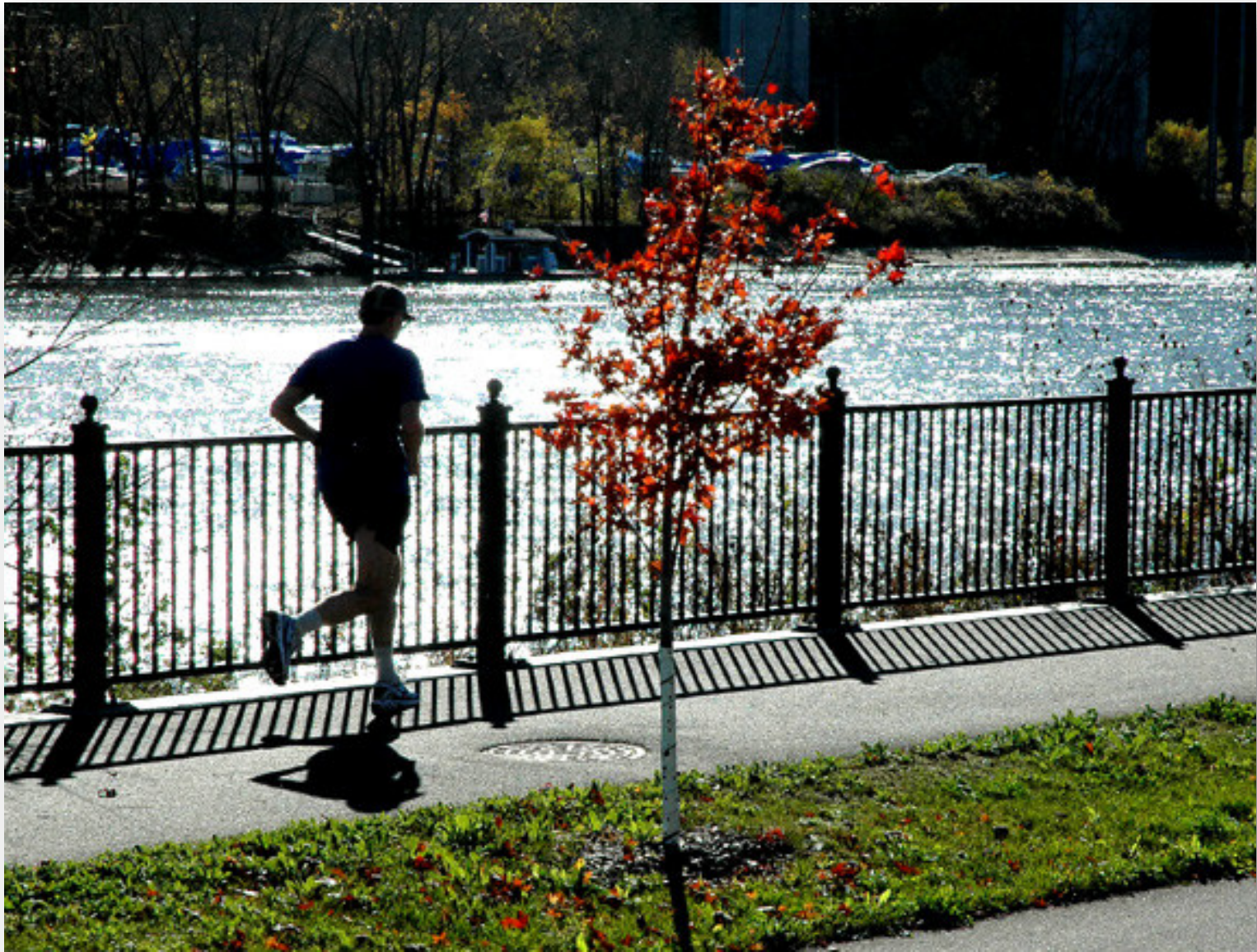
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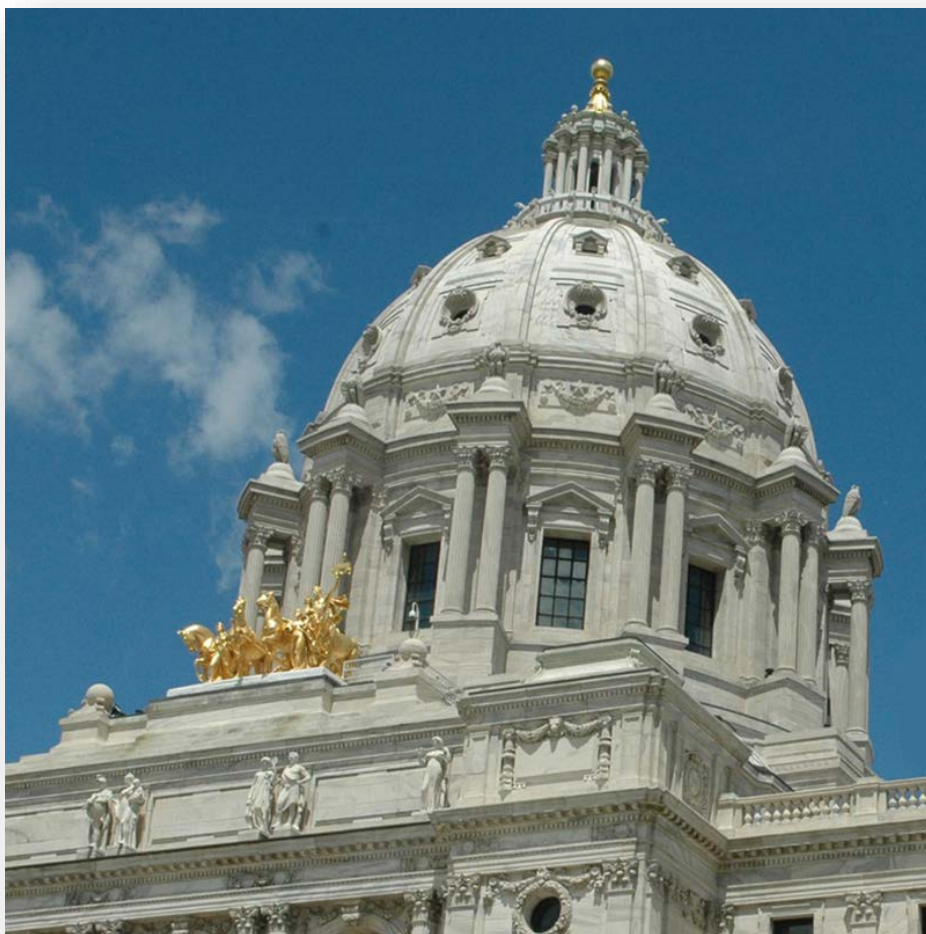
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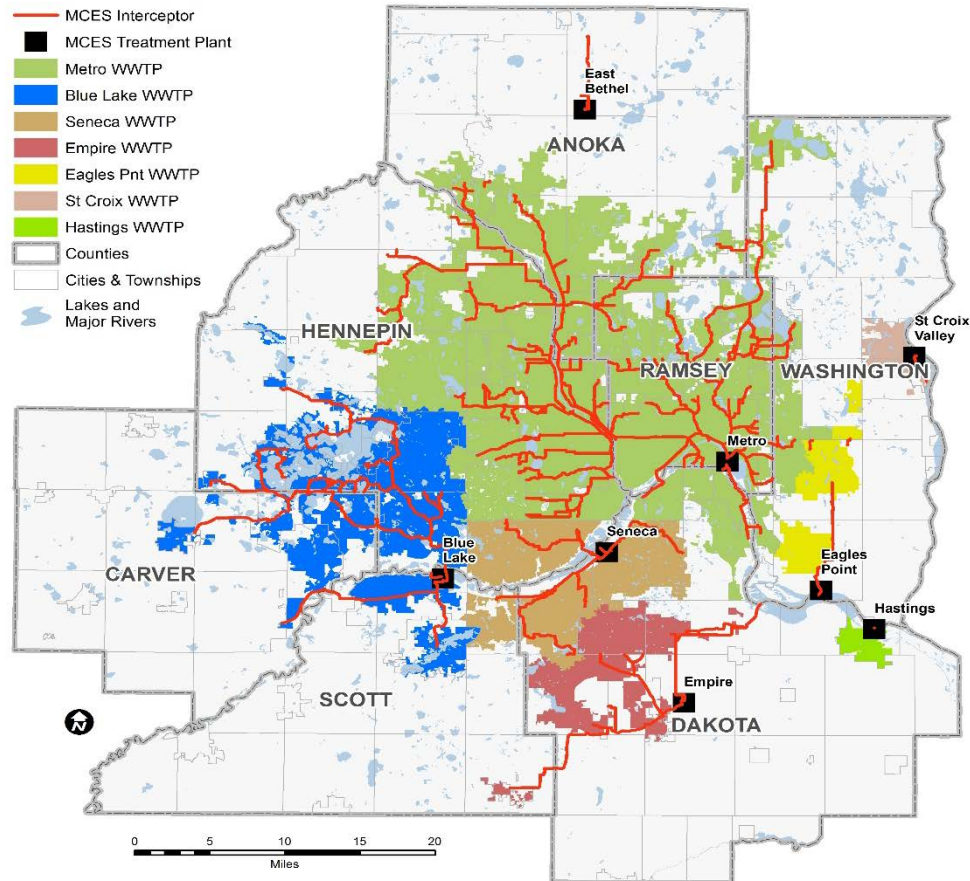


- MN Stat. 473.146
 - Policy Plans for Metropolitan Agencies
- MN Stat. 473.513
 - Municipal Plans and Programs
- MN Stat. 473.858
 - Comprehensive Plans; Local Governmental Units





Areas Served by the Regional System





Areas Served by the Regional System

Adopted Community Sewered Forecasts

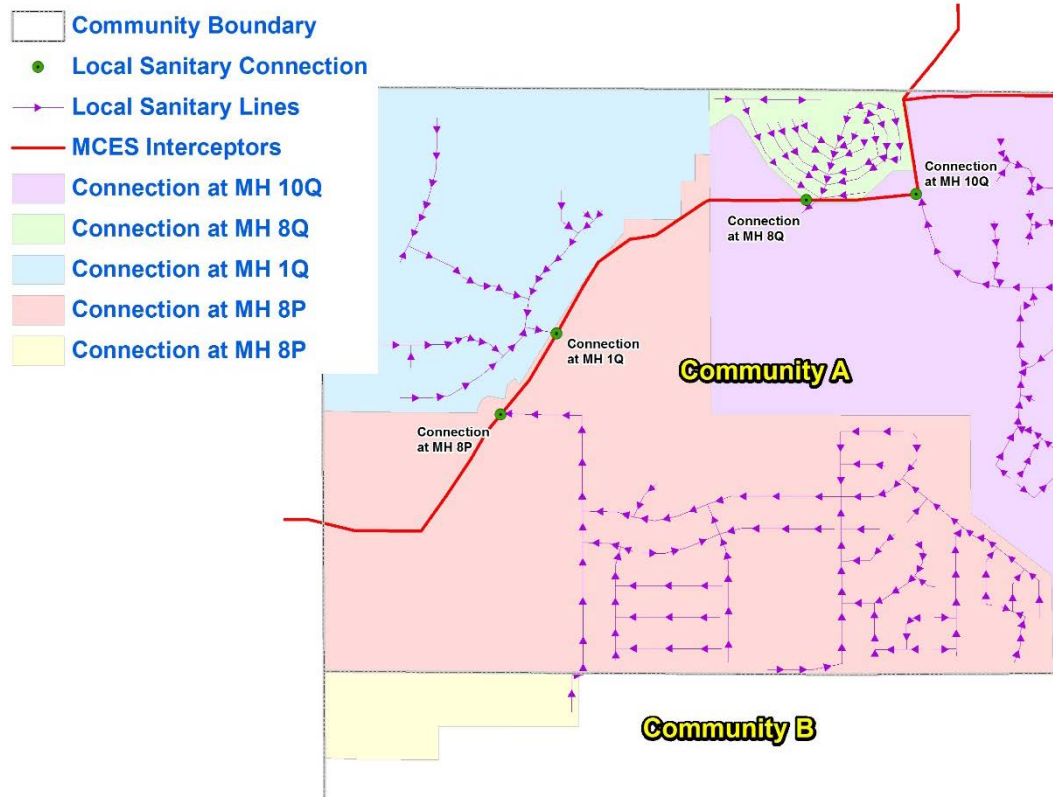
| | 2020 | 2030 | 2040 |
|-------------------------|--------------|--------------|--------------|
| <u>TOTAL</u> | | | |
| HOUSEHOLDS | 1,500 | 3,000 | 4,700 |
| EMPLOYMENT | 4,900 | 5,300 | 6,000 |
| <u>SEWERED</u> | | | |
| HOUSEHOLDS | 1,000 | 2,600 | 4,400 |
| EMPLOYMENT | 4,600 | 5,100 | 5,900 |
| <u>UNSEWERED</u> | | | |
| HOUSEHOLDS | 500 | 400 | 300 |
| EMPLOYMENT | 300 | 200 | 100 |





Areas Served by the Regional System

Local Connection Points to the Regional System

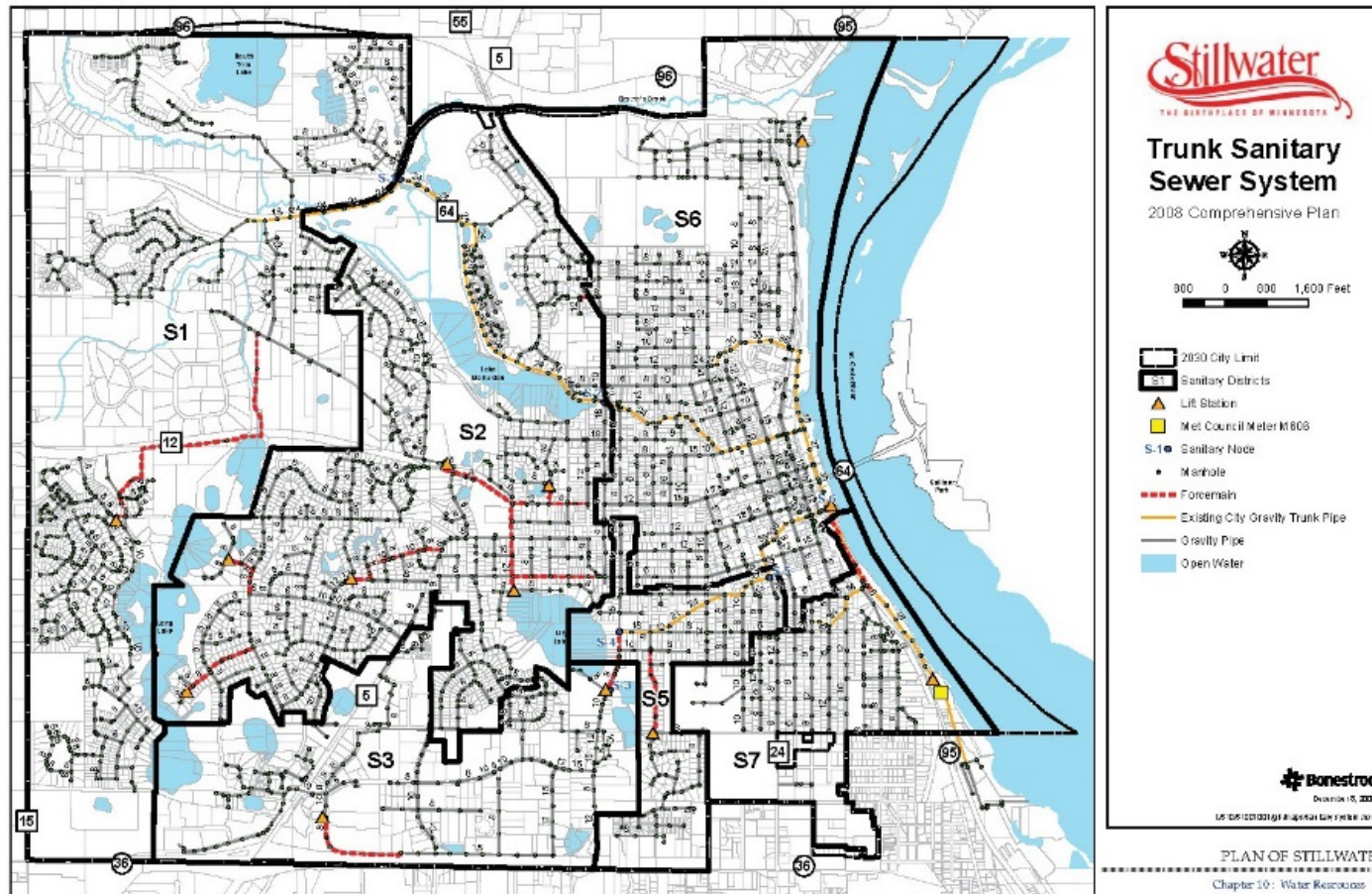




Areas Served by the Regional System

Local Sanitary Sewer System Map

Figure 10.1: Trunk Sewer System Map





Sanitary Sewer System Information Tables

| | WASTEWATER FLOW PROJECTIONS by INTERCEPTOR CONNECTION POINT | | | | |
|------|--|--------|---------------------|---------------------|-------|
| YEAR | 9004-1 | 900415 | 900430 (Point A) | 900430 (Point B) | TOTAL |
| 2020 | 3.3 | 1.0 | 0.9 | 0.7 | 5.9 |
| 2030 | 3.8 | 1.4 | 1.0 | 0.8 | 7.0 |
| 2040 | 4.6 | 1.4 | 1.0 | 0.8 | 7.8 |

Flow in Million Gallons Per Day





Areas Served by the Regional System

Sanitary Sewer System Information Tables

| APPENDIX D - PIPE CAPACITIES FOR THE ULTIMATE SYSTEM | | | | | | | | | | | | | | | |
|---|----------|-------------------|-----------------|-------------------------|-------------------------|---------------|-------------|---------------------|-----------------------|-----------|---------------------|----------------------|----------------|-----------------|----------------|
| From Point | To Point | Design Flow (MGD) | Exist./Proposed | Existing Pipe Size (in) | Parallel Pipe Size (in) | Pipe Material | Length (ft) | Upstream Elev. (ft) | Downstream Elev. (ft) | Slope (%) | Inlet Control (cfs) | Outlet Control (MGD) | Capacity (MGD) | Capacity/Design | Capacity/Flow* |
| Medina System to Elm Creek Interceptor | | | | | | | | | | | | | | | |
| 276 | 271 | 1.84 | Proposed | 12" FM | | PVC | 5200 | 965 | 979.83 | -- | -- | -- | -- | -- | -- |
| 274 | 271 | 2.56 | Exist. | 8 | | PVC | 299 | 979.83 | 978.66 | 0.39 | 1.4 | 0.90 | 0.8 | 0.49 | 0.49 |
| 271 | 267 | 2.56 | Exist. | 10 | 15 | PVC | 970 | 978.66 | 975.75 | 0.30 | 1.7 | 1.10 | 1.2 | 0.78 | 0.30 |
| 267 | 257 | 4.47 | Exist. | 15 | 18 | PVC | 3621 | 975.59 | 969.30 | 0.17 | 4.1 | 2.65 | 2.7 | 1.74 | 0.39 |
| 257 | 250 | 5.30 | Exist. | 21 | 18 | RCP | 2848 | 969.10 | 966.10 | 0.11 | 9.1 | 5.88 | 5.2 | 3.31 | 0.63 |
| 250 | 238 | 5.81 | Exist. | 24 | | RCP | 4256 | 966.30 | 961.26 | 0.12 | 13.0 | 8.40 | 7.8 | 5.04 | 0.87 |
| 238 | 237 | 6.03 | Exist. | 24 | | RCP | 3923 | 961.26 | 951.82 | 0.16 | 13.0 | 8.40 | 9.2 | 5.93 | 0.98 |
| 256 | 257 | 0.53 | Exist. | 10 | | PVC | 1576 | 975.87 | 969.33 | 0.41 | 1.7 | 1.10 | 1.4 | 0.91 | 1.74 |
| 275 | 267 | 2.31 | Proposed | 12" FM | | PVC | 10400 | 940 | 975.59 | -- | -- | -- | -- | -- | -- |
| 251 | 252 | 0.15 | Exist. | 10 | | PVC | 205 | 978.44 | 977.27 | 0.57 | 1.7 | 1.10 | 1.7 | 1.07 | 7.19 |
| 252 | 250 | 0.15 | Exist. | 10 | | PVC | 3477 | 969.10 | 966.50 | 0.08 | 1.7 | 1.10 | 0.6 | 0.40 | 2.70 |
| 220 | 223 | 0.04 | Exist. | 12 | | PVC | 379 | 976.84 | 967.16 | 2.55 | 2.2 | 1.42 | 5.7 | 3.69 | 1.42 |
| 223 | 226 | 0.69 | Exist. | 12 | | PVC | 616 | 967.16 | 960.24 | 1.12 | 2.2 | 1.42 | 3.8 | 2.44 | 2.05 |
| 226 | 235 | 0.75 | Exist. | 12 | | PVC | 200 | 960.24 | 954.50 | 2.87 | 2.2 | 1.42 | 6.0 | 3.91 | 1.42 |
| 239 | 237 | 0.32 | Exist. | 12 | | PVC | 3691 | 968.77 | 960.35 | 0.23 | 2.2 | 1.42 | 1.7 | 1.10 | 3.47 |
| 237 | 235 | 6.68 | Exist. | 24 | | PVC | 2497 | 968.04 | 958.39 | 0.39 | 13.0 | 8.40 | 14.1 | 9.10 | 8.40 |
| 236** | 235 | 6.79 | Exist. | 27 | | PVC | 4200 | 955.63 | 942.43 | 0.31 | 17.7 | 11.43 | 17.4 | 11.24 | 1.66 |
| 235** | 234 | 7.74 | Exist. | 27 | | PVC | 3400 | 942.43 | 933.27 | 0.31 | 17.7 | 11.43 | 17.3 | 11.16 | 1.44 |
| Morningside | | | | | | | | | | | | | | | |
| 322 | Orono | 0.19 | Exist. | 8 | | PVC | 1130 | 1039.54 | 1034.80 | 0.42 | 1.4 | 0.90 | 0.8 | 0.51 | 2.67 |
| Lake Independence | | | | | | | | | | | | | | | |
| 134 | 123 | 0.21 | Exist. | 8 | | PVC | 8163 | 1035.40 | 1012.42 | 0.28 | 1.4 | 0.90 | 0.6 | 0.42 | 2.02 |
| 123 | 112 | 0.24 | Exist. | 10 | | PVC | 3940 | 1012.42 | 980.34 | 0.81 | 1.7 | 1.10 | 2.0 | 1.28 | 4.62 |
| 112 | 108 | 0.35 | Exist. | 15 | | PVC | 655 | 980.34 | 979.06 | 0.20 | 4.1 | 2.65 | 2.9 | 1.85 | 5.34 |

*Capacity to Design Flow ratio based on capacity of existing pipe. Proposed parallel pipe provides a ratio greater than 1.0 as a primary design criterion for the parallel pipe.

** Indicates Elm Creek Interceptor segments





Areas Served by the Regional System

Municipal or Private Wastewater Treatment Facilities



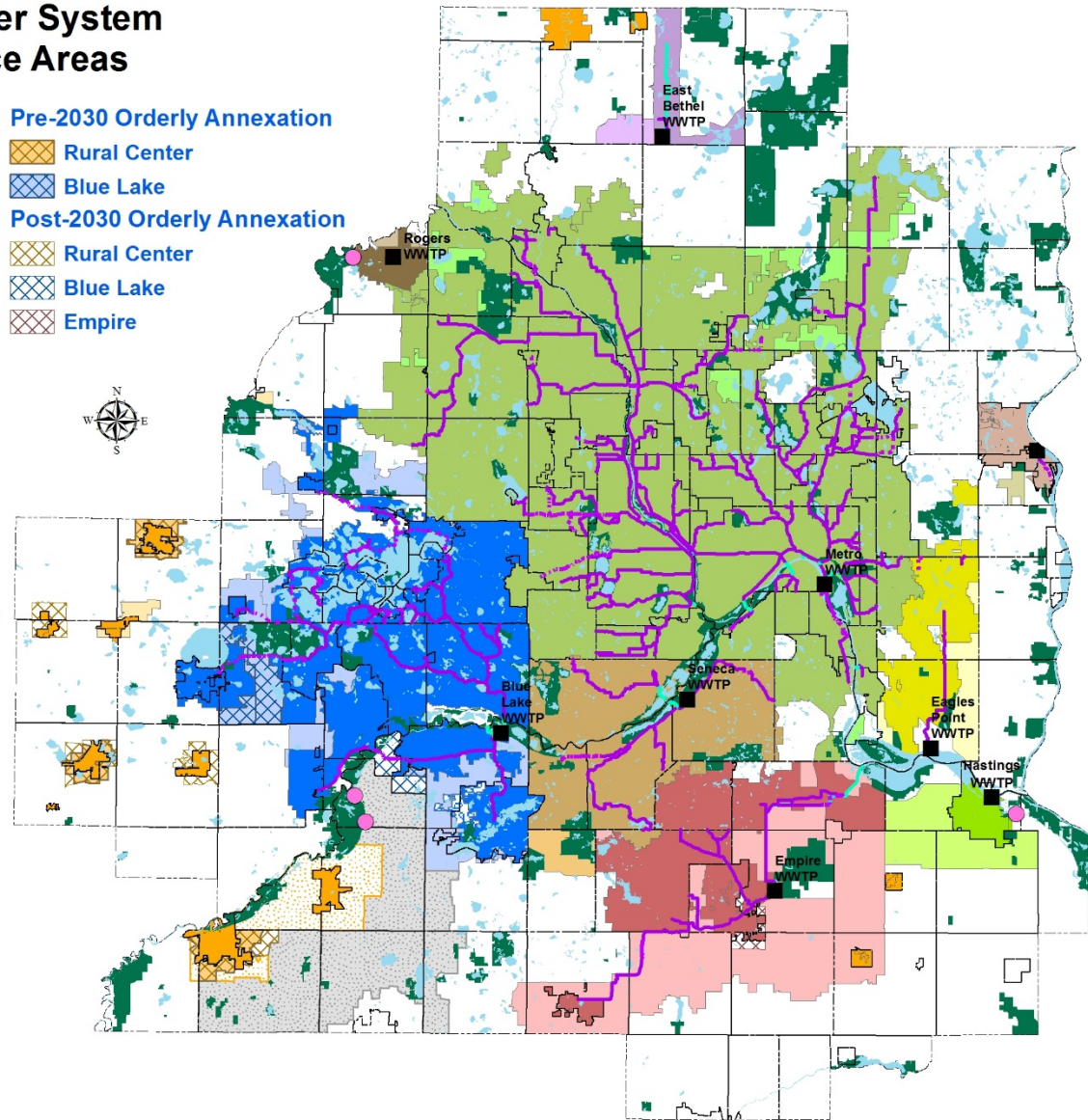
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Regional Wastewater System Long Term Service Areas

- MCES Treatment Plant
- Future WWTP Site
- Gravity
- ⋯ Forcemain
- ⋯ Siphon
- Outfall
- Lakes and Rivers
- Long Term Service Area**
- Rural Center
- Potential Rural Center
- Metro
- Potential Metro
- Blue Lake
- Potential Blue Lake
- SMSC Area
- Scott Co. Rural Center Expansion
- Scott Co. Urban Expansion
- Seneca
- Potential Seneca
- Empire
- Potential Empire
- Eagles Point
- Potential Eagles Point
- St Croix Valley
- Potential St Croix
- Hastings
- Potential Hastings
- Rogers
- Potential Rogers
- East Bethel
- Potential East Bethel

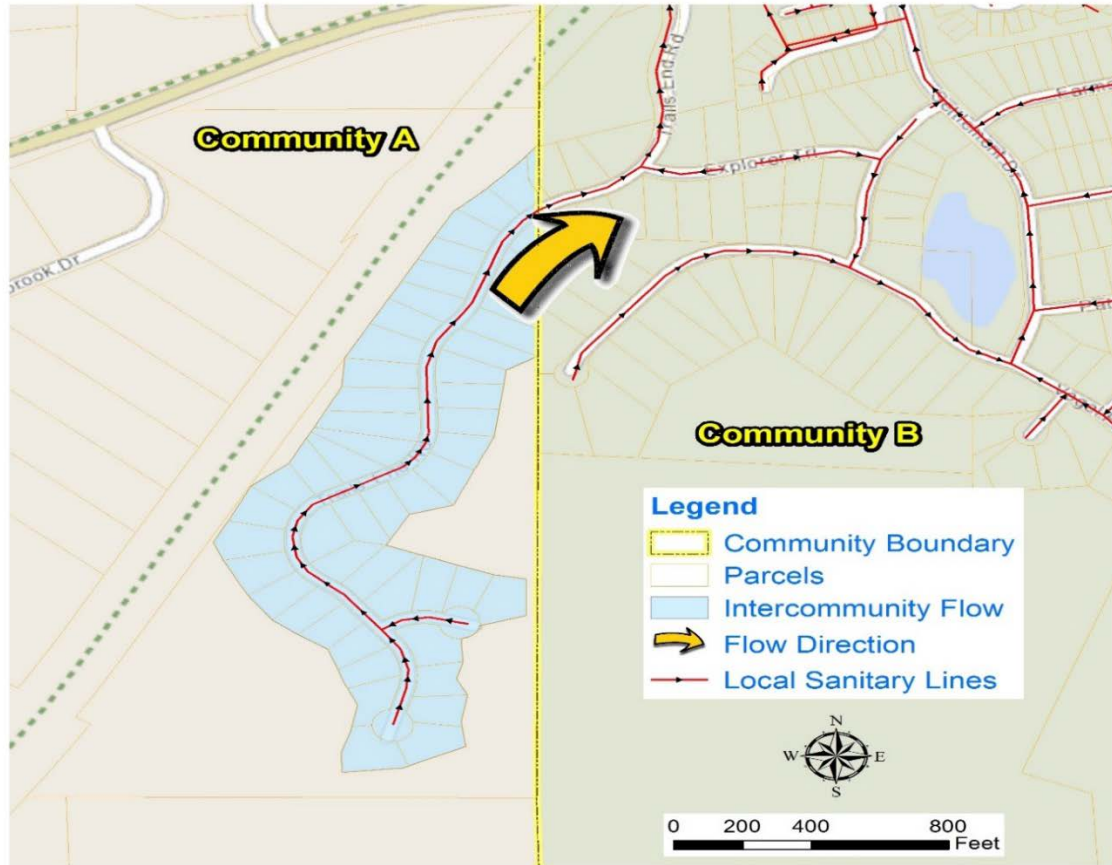
- Pre-2030 Orderly Annexation**
- Rural Center
- Blue Lake
- Post-2030 Orderly Annexation**
- Rural Center
- Blue Lake
- Empire





Areas Served by the Regional System

Intercommunity Service Agreements





Areas Served by the Regional System



Preventing and Reducing Inflow and Infiltration

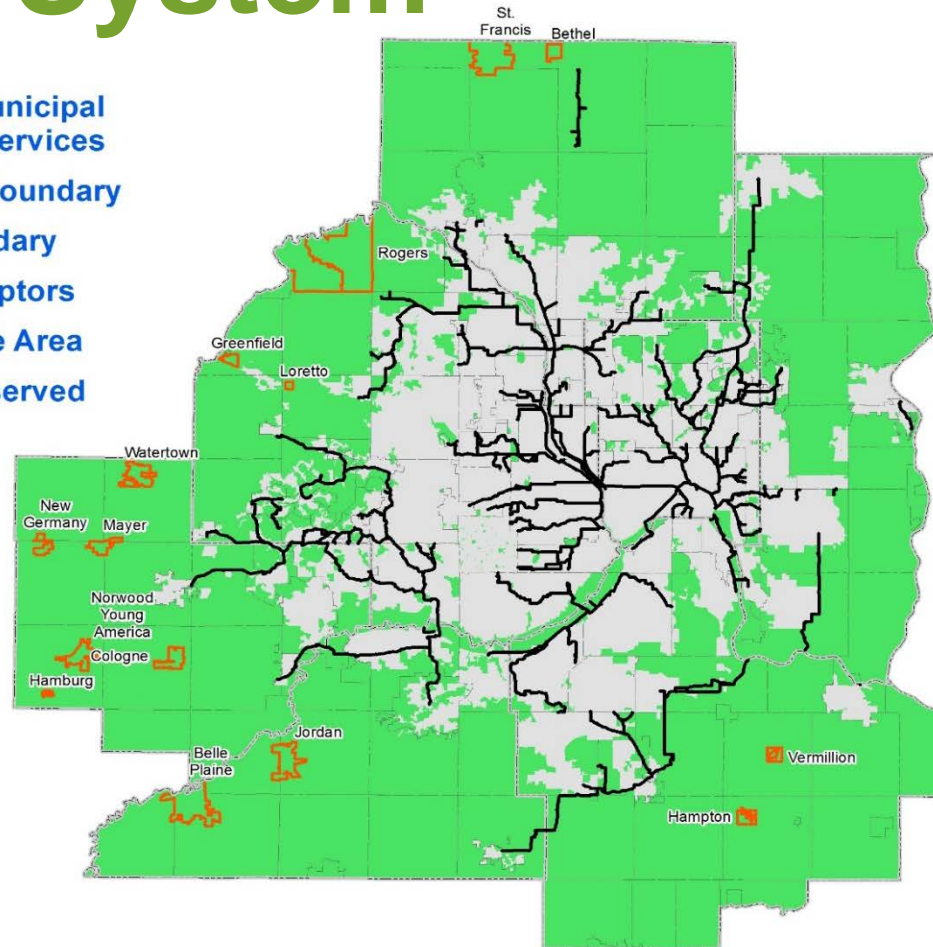
- ✓ Program strategy
- ✓ Priorities
- ✓ Scheduling
- ✓ Financing mechanisms





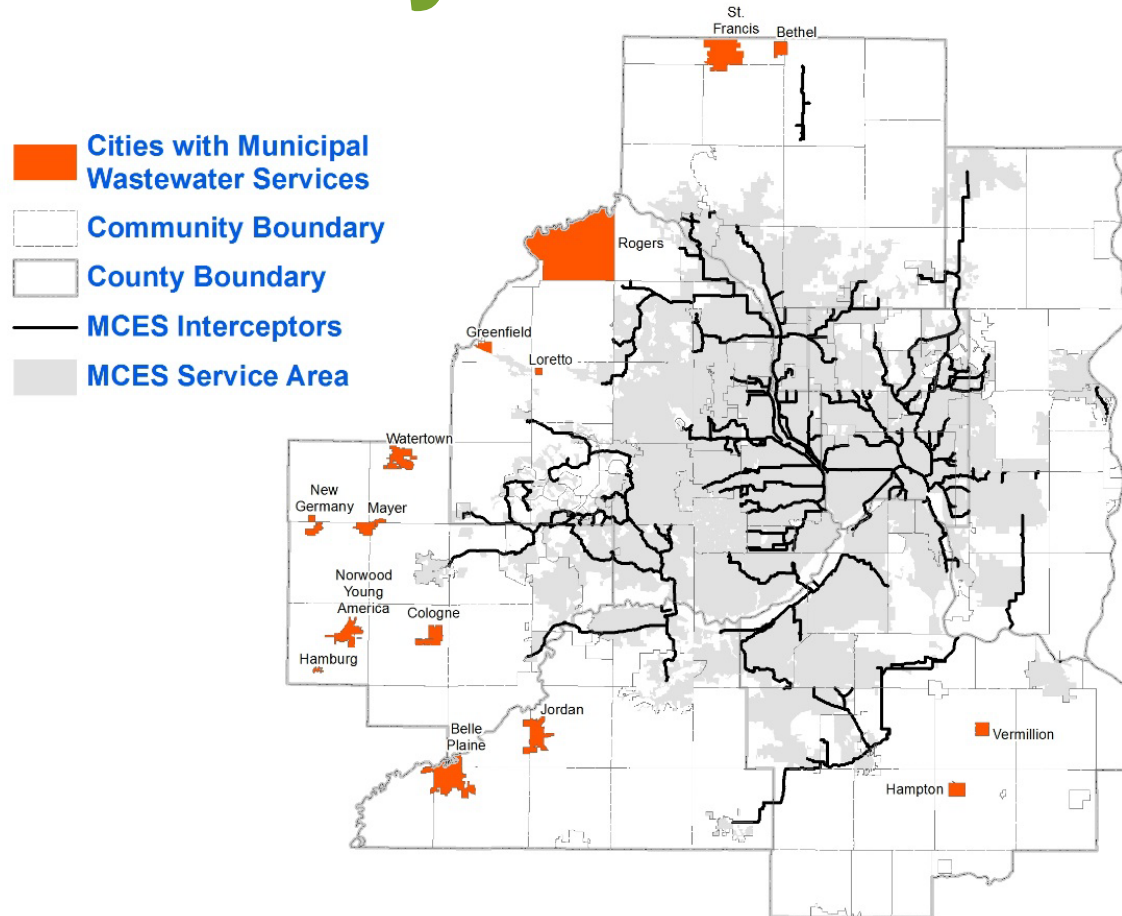
Areas Not Served by the Regional System

-  Cities with Municipal Wastewater Services
-  Community Boundary
-  County Boundary
-  MCES Interceptors
-  MCES Service Area
-  Currently Unserved





Areas Served by Local Treatment Systems





Areas Not Served by the Regional System

Capacity and Existing Flow

| | 2010 | 2020 | 2030 | 2040 |
|-------------------|------|------|------|------|
| FLOW | 5.7 | 7.2 | 9.5 | 11.0 |
| FACILITY CAPACITY | 10.0 | 10.0 | 10.0 | 10.0 |

Flow in Million Gallons Per Day



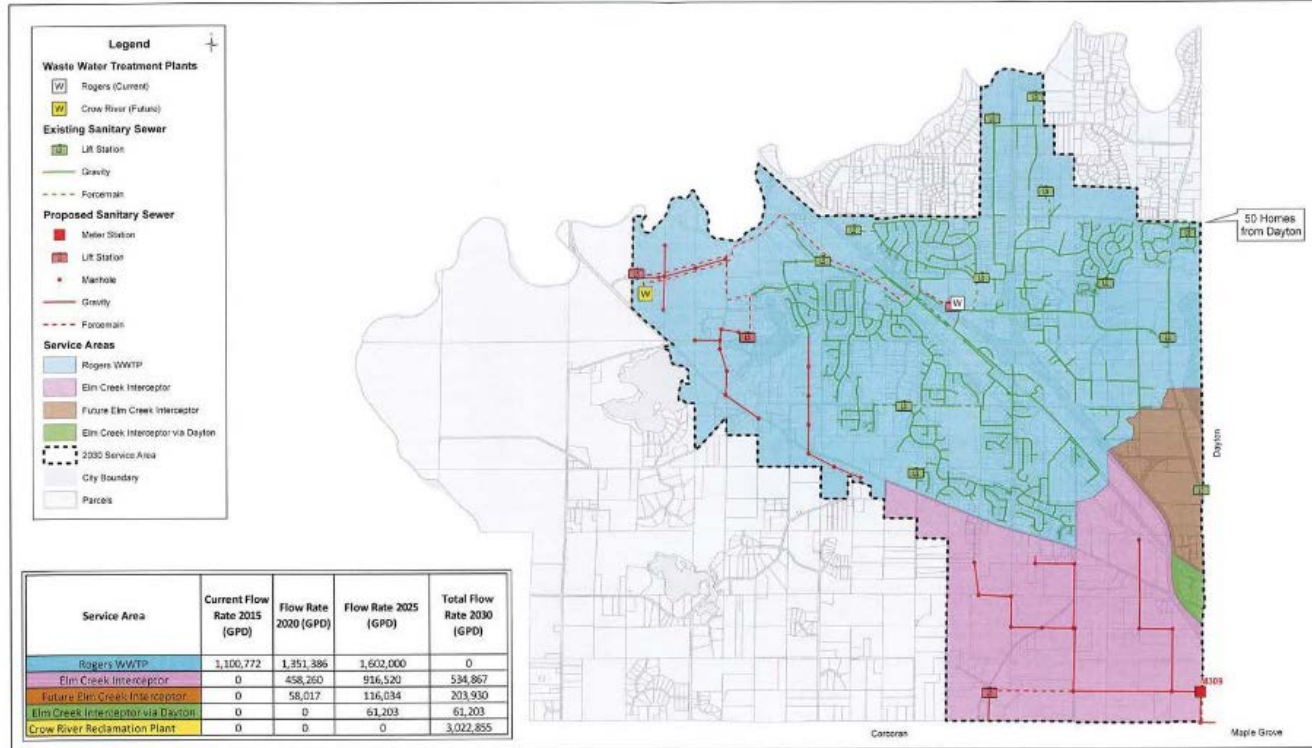


Areas Not Served by the Regional System

Local Sanitary Sewer System Map

Sanitary Sewer Service Areas within 2030 Service Area

City of Rogers, Minnesota



Rogers, Minnesota
Public Works Department
Geographic Information Systems



City of Rogers
Public Works Department
Geographic Information Systems

City of Rogers
Public Works Department
Geographic Information Systems

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All Communities

Non-Municipal Communal Treatment Systems

Private/Communal Treatment System



Manufactured Home Neighborhood

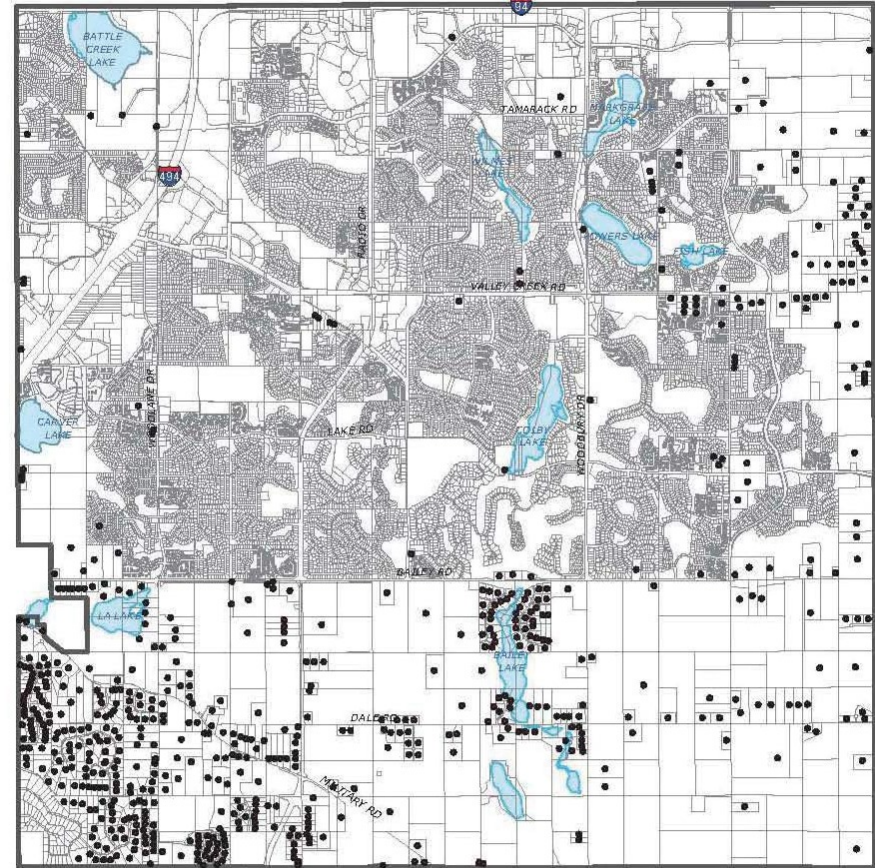


All Communities

Subsurface Treatment Systems

Legend

- ITST
- Parcel Base Map

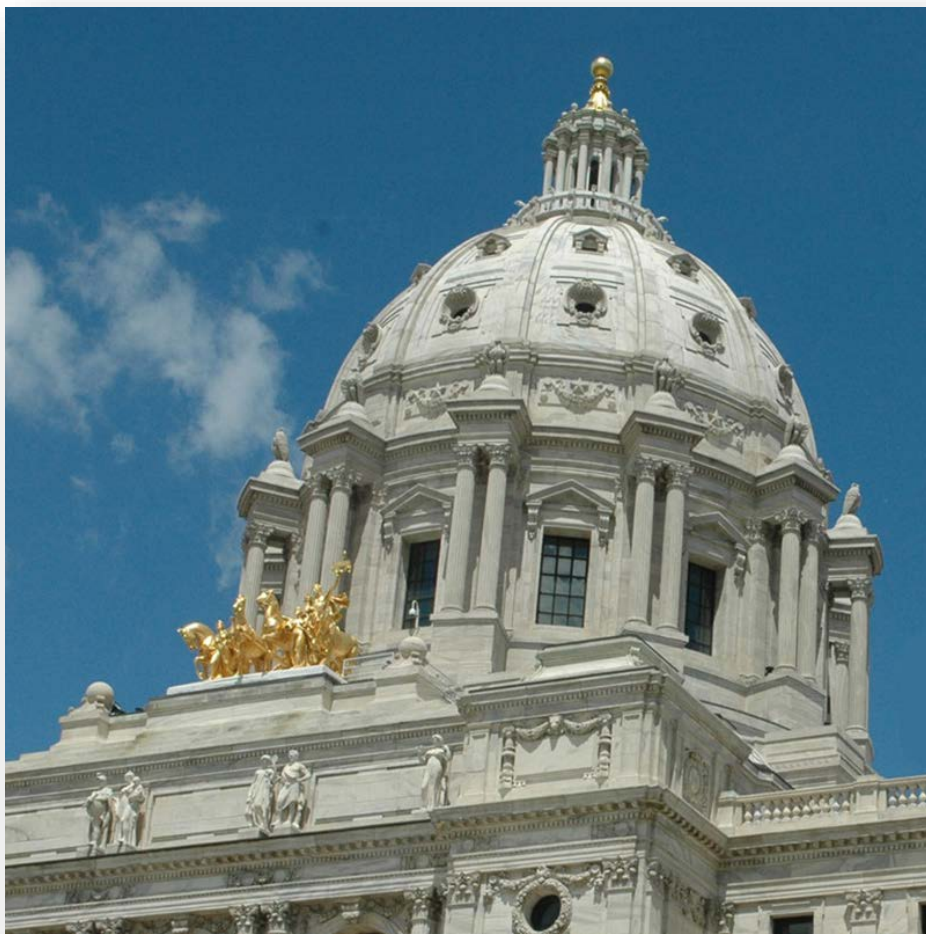


Map Prepared by Buresco

Figure 10-2: Individual System Location Map

Woodbury 2030 Comprehensive Plan



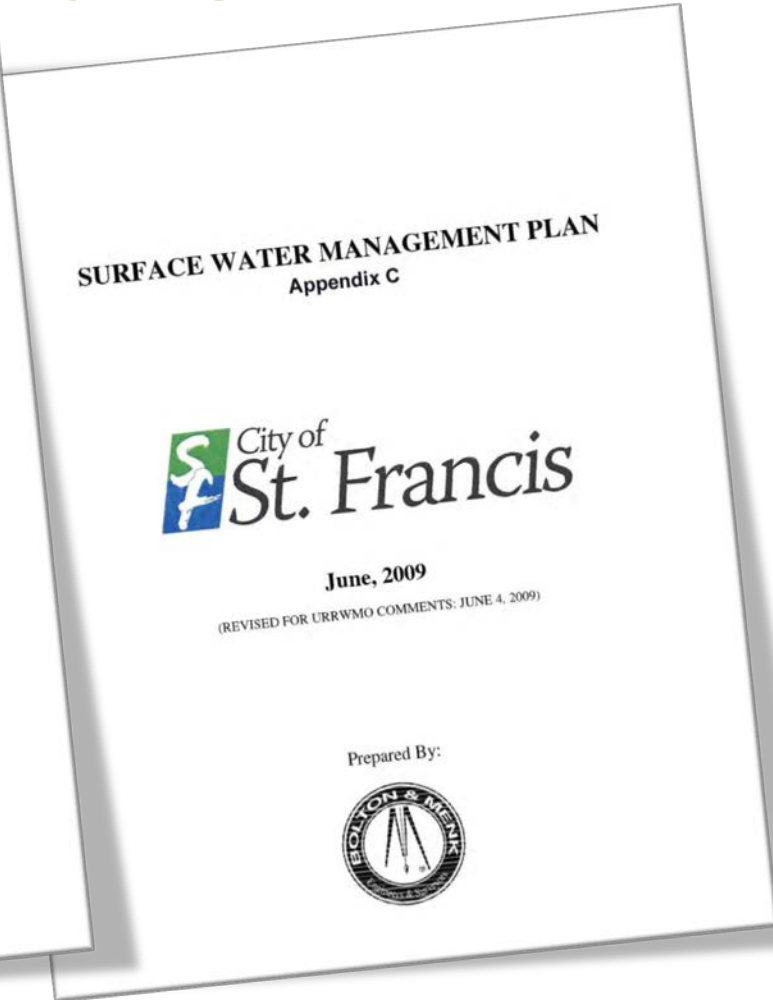
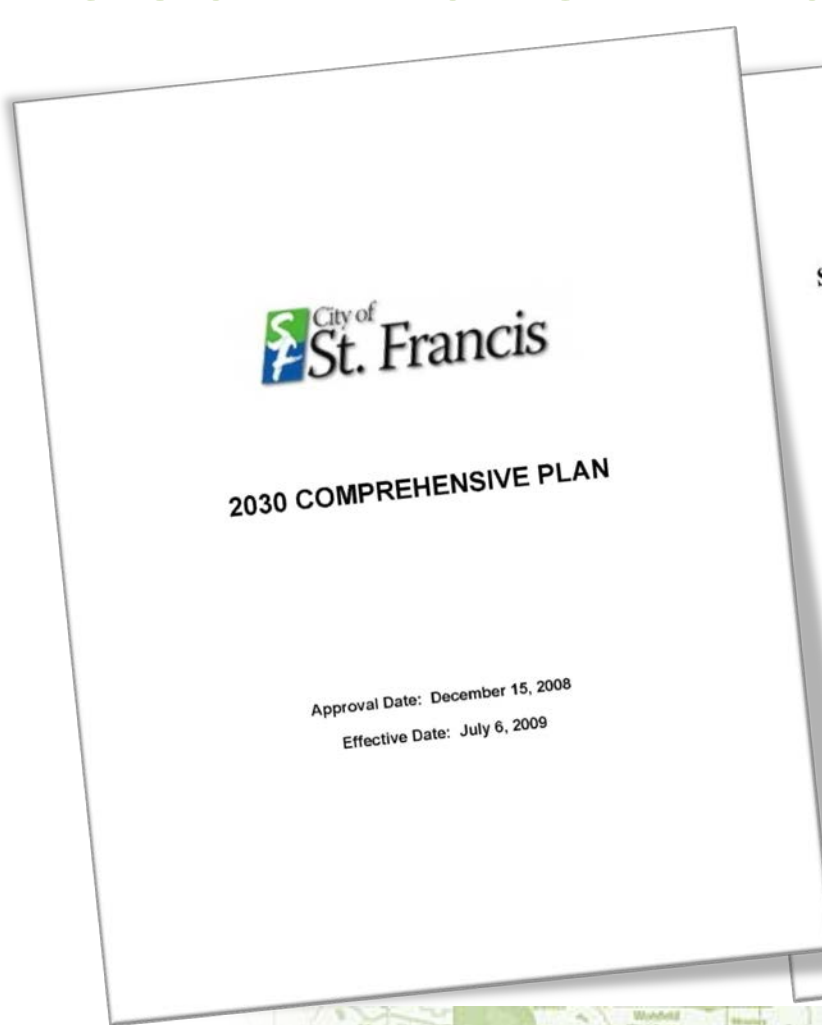


- MN Stat. Chapter 103B.201 (Metropolitan Surface Water Management)
- MN Rules Chapter 8410 (Metropolitan Local Water Management)





Local Water Plans





Minnehaha Creek Watershed District Comprehensive Water Resources Management Plan

2007-2017

Wenck File #0185-4315

Prepared for:
**MINNEHAHA CREEK
WATERSHED DISTRICT**



**MINNEHAHA CREEK
WATERSHED DISTRICT**
QUALITY OF WATER, QUALITY OF LIFE

FINAL April 2007

Prepared by:
WENCK ASSOCIATES, INC.
1800 Pioneer Creek Center
P.O. Box 249
Maple Plain, Minnesota 55359-0249
(763) 479-4200

Last Amended
July 25, 2013

April 2007

Minnehaha Creek Watershed District
Comprehensive Water Resources Management Plan

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Bassett Creek Watershed Management Commission 2015-2025 Watershed Management Plan



SEPTEMBER 2015

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ules > [Water and Soil Resources Board](#) > Chapter 8410

Minnesota Administrative Rules

CHAPTER 8410, METROPOLITAN WATER MANAGEMENT BOARD OF WATER AND SOIL RESOURCES

| Part | Title |
|--|---|
| METROPOLITAN LOCAL WATER MANAGEMENT | |
| 410.0010 | SCOPE. |
| 410.0020 | DEFINITIONS. |
| 410.0030 | JOINT POWERS AGREEMENTS. |
| 410.0040 | REMOVAL OF ORGANIZATION REPRESENTATIVES. |
| 410.0045 | ISSUE IDENTIFICATION AND ASSESSMENT. |
| WATERSHED MANAGEMENT ORGANIZATION PLANS | |
| 410.0050 | EXECUTIVE SUMMARY. |
| 410.0060 | LAND AND WATER RESOURCES. |
| 410.0070 | [Repealed, 40 SR 6] |
| 410.0080 | ESTABLISHMENT OF GOALS. |
| 410.0090 | [Repealed, 40 SR 6] |
| 410.0100 | [Repealed, 40 SR 6] |
| 410.0105 | IMPLEMENTATION ACTIONS. |
| 410.0110 | [Repealed, 40 SR 6] |
| 410.0120 | [Repealed, 40 SR 6] |
| 410.0130 | [Repealed, 40 SR 6] |
| 410.0140 | PLAN AMENDMENTS. |
| 410.0150 | ANNUAL REPORTING AND EVALUATION REQUIREMENTS. |
| LOCAL WATER PLANS | |





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Minnesota

CHAPTER 84

BOARD OF WATER

Part Title

METROPOLITAN

- [410.0010](#) SC
- [410.0020](#) DE
- [410.0030](#) JO
- [410.0040](#) RE
- [410.0045](#) ISS

WATERSHED M

- [410.0050](#) EX
- [410.0060](#) LA
- [410.0070](#) [Re
- [410.0080](#) EST
- [410.0090](#) [Re
- [410.0100](#) [Re
- [410.0105](#) IM
- [410.0110](#) [Re
- [410.0120](#) [Re
- [410.0130](#) [Re
- [410.0140](#) PL
- [410.0150](#) AN

.LOCAL WATER



METROPOLITAN COUNCIL

LOCAL PLANNING HANDBOOK

PLAN ELEMENTS

- Water Resources
- Wastewater
- Surface Water
- Water Supply
- Planit: Training & Development
- FAQs

WATER RESOURCES

The prosperity, quality of life, and continued development of our region all depend on the sustainability of the quality and quantity of our region's water resources. Our water resources, from our aquifers to our surface waters, are the foundation for growth and vitality in the region. We need to manage our use of our aquifers for water supply, our surface waters for their ecological and development functions, and our land use patterns for their potential impacts to these resources.



Along with policies and strategies on water supply, wastewater, and surface water detailed in the **2040 Water Resources Policy Plan**, you will need to develop components in your comprehensive plan to address local issues related to water supply, wastewater, and surface water:

- A **wastewater and comprehensive sewer plan** that specifies areas to be sewered by the public wastewater system, sets standards of operation for private systems, and identifies areas that are not suitable for public or private systems.
- A local **water management plan** that protects water quality and addresses water quantity issues.
- A **water supply plan** that ensures a safe and sufficient water supply now and in the future.



Wastewater



Surface Water



Water Supply

Water Resources



Plan Examples



Fact Sheets



Mapping



FAQs



Best Practices




Forms & Templates





House Sen



METROPOLITAN COUNCIL

LOCAL PLANNING HANDBOOK

PLAN ELEMENTS

- Water Resources
- Wastewater
- Surface Water
- Water Supply

Plant, Training & Development

FAQs

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CHAPTER 84

BOARD OF WATER

| Part | Title |
|--------------------------|-------|
| METROPOLITAN | |
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| 410.0050 | EX |
| 410.0060 | LA |
| 410.0070 | [Re |
| 410.0080 | ES |
| 410.0090 | [Re |
| 410.0100 | [Re |
| 410.0105 | IM |
| 410.0110 | [Re |
| 410.0120 | [Re |
| 410.0130 | [Re |
| 410.0140 | PL |
| 410.0150 | AN |

.LOCAL WATER

Thrive MSP | WATER RESOURCES POLICY PLAN

2040

Sustaining the region's waters, sustaining the region.

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What has changed since the last round of comprehensive planning?



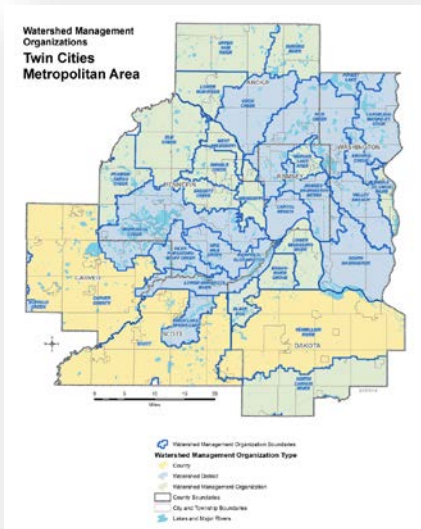
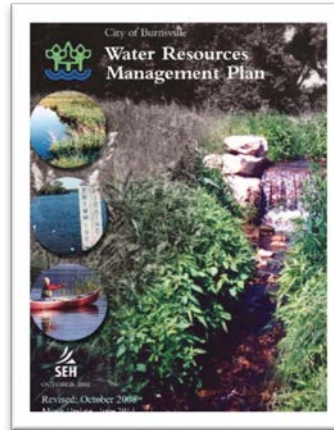


What has changed since the last round of comprehensive planning?





Submission, Review and Approval

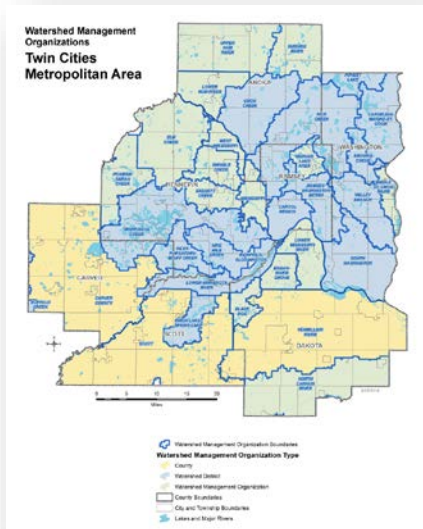
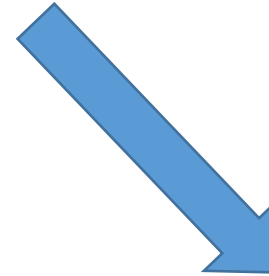
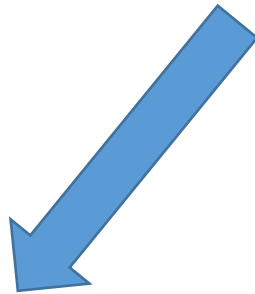


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Submission, Review and Approval

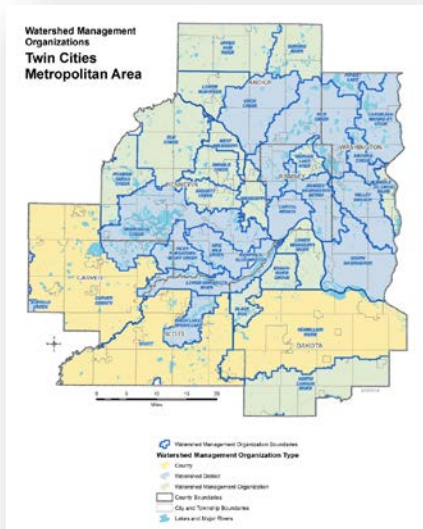
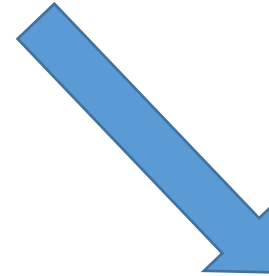
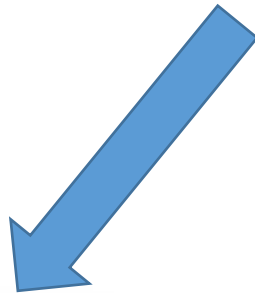


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Submission, Review and Approval



45 Days

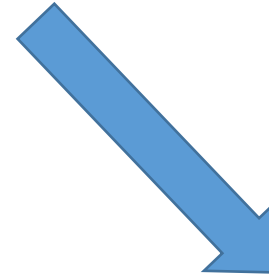
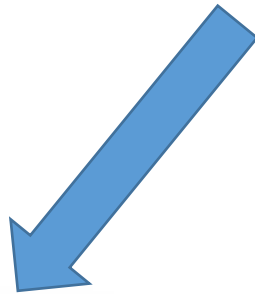




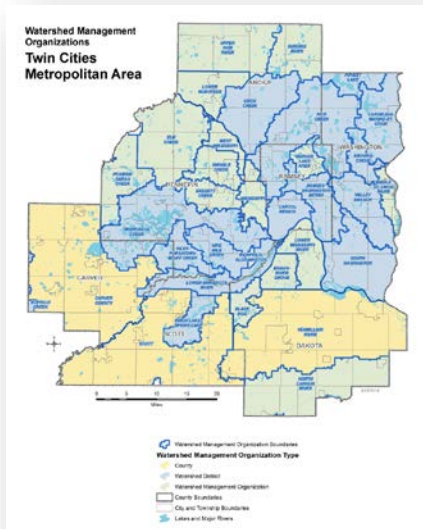
Submission, Review and Approval



60 Days



45 Days



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Submission, Review and Approval



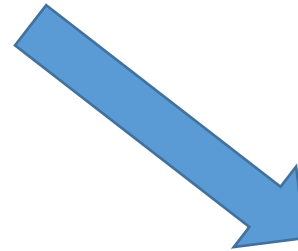
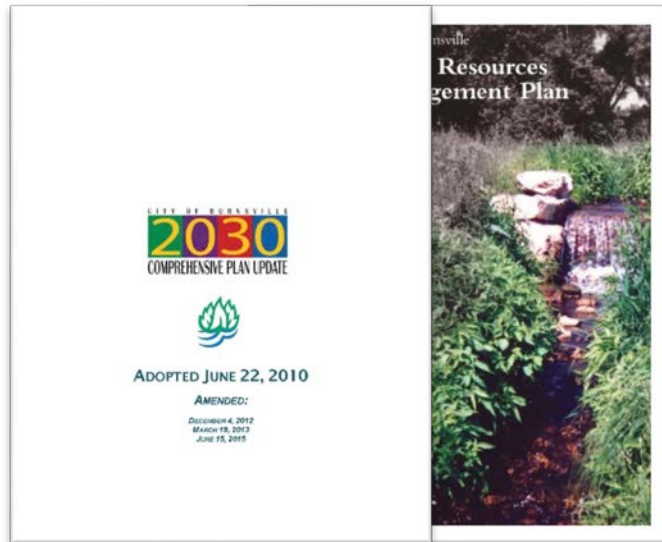
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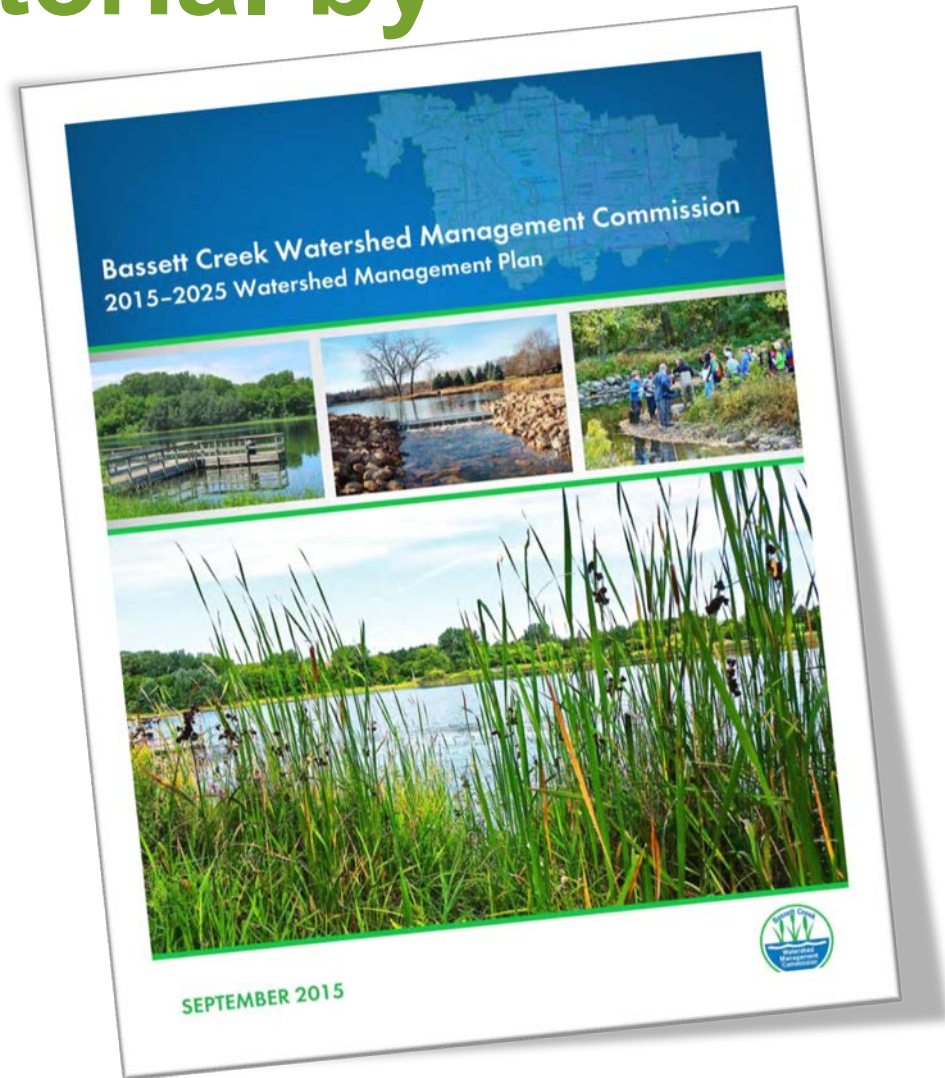
Submission, Review and Approval

Final Comp Plan must Include Entire Local Water Plan as a Chapter or Appendix





Adopting Material by Reference



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Minimum Plan Requirements

- ✓ Water resources-related agreements





Minimum Plan Requirements

- ✓ Description of existing and proposed physical environment and land use





Minimum Plan Requirements

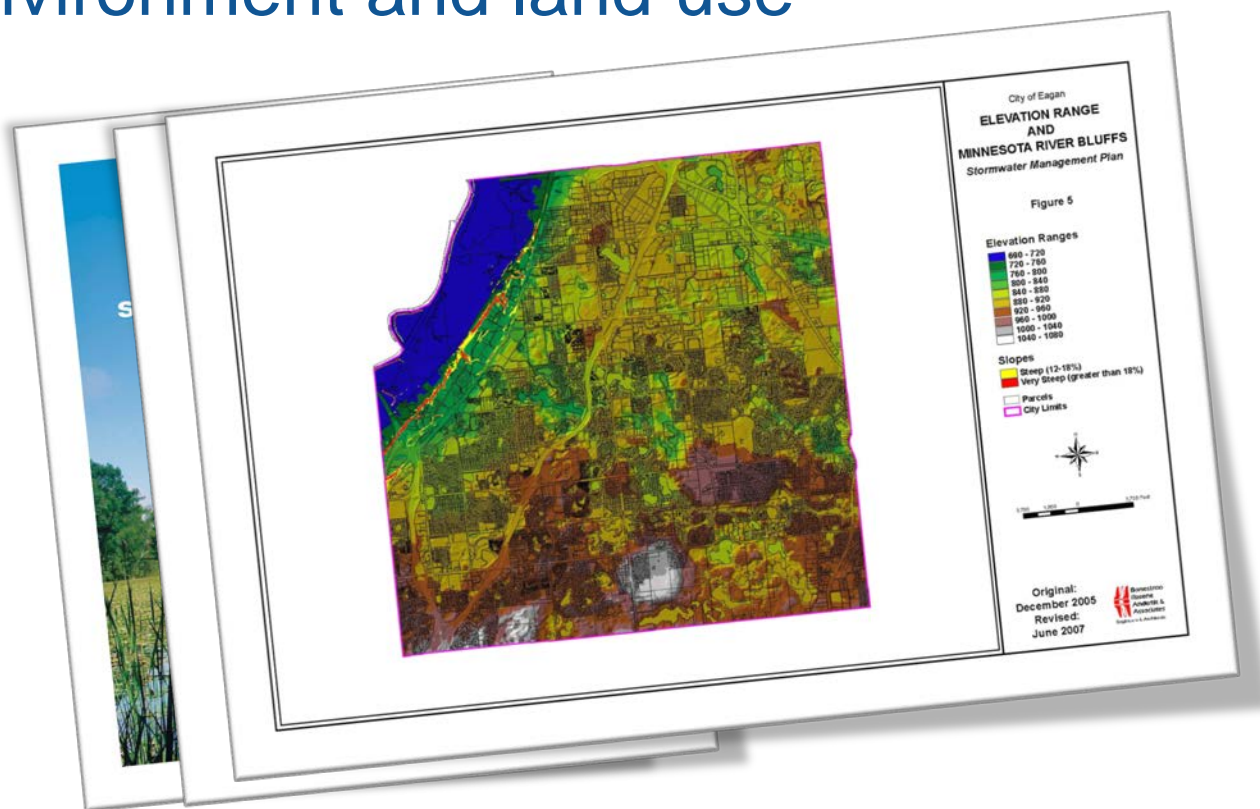
- ✓ Description of existing and proposed physical environment and land use





Minimum Plan Requirements

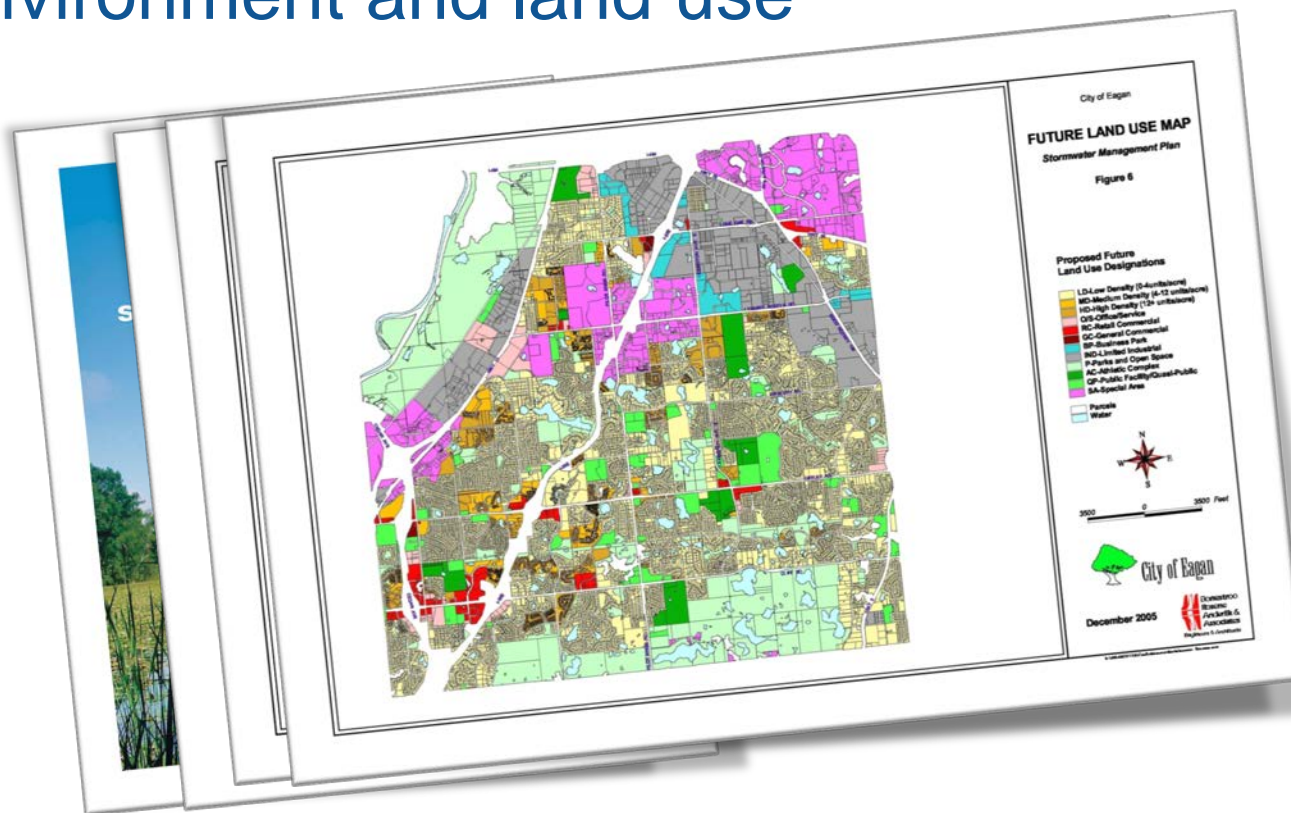
- ✓ Description of existing and proposed physical environment and land use





Minimum Plan Requirements

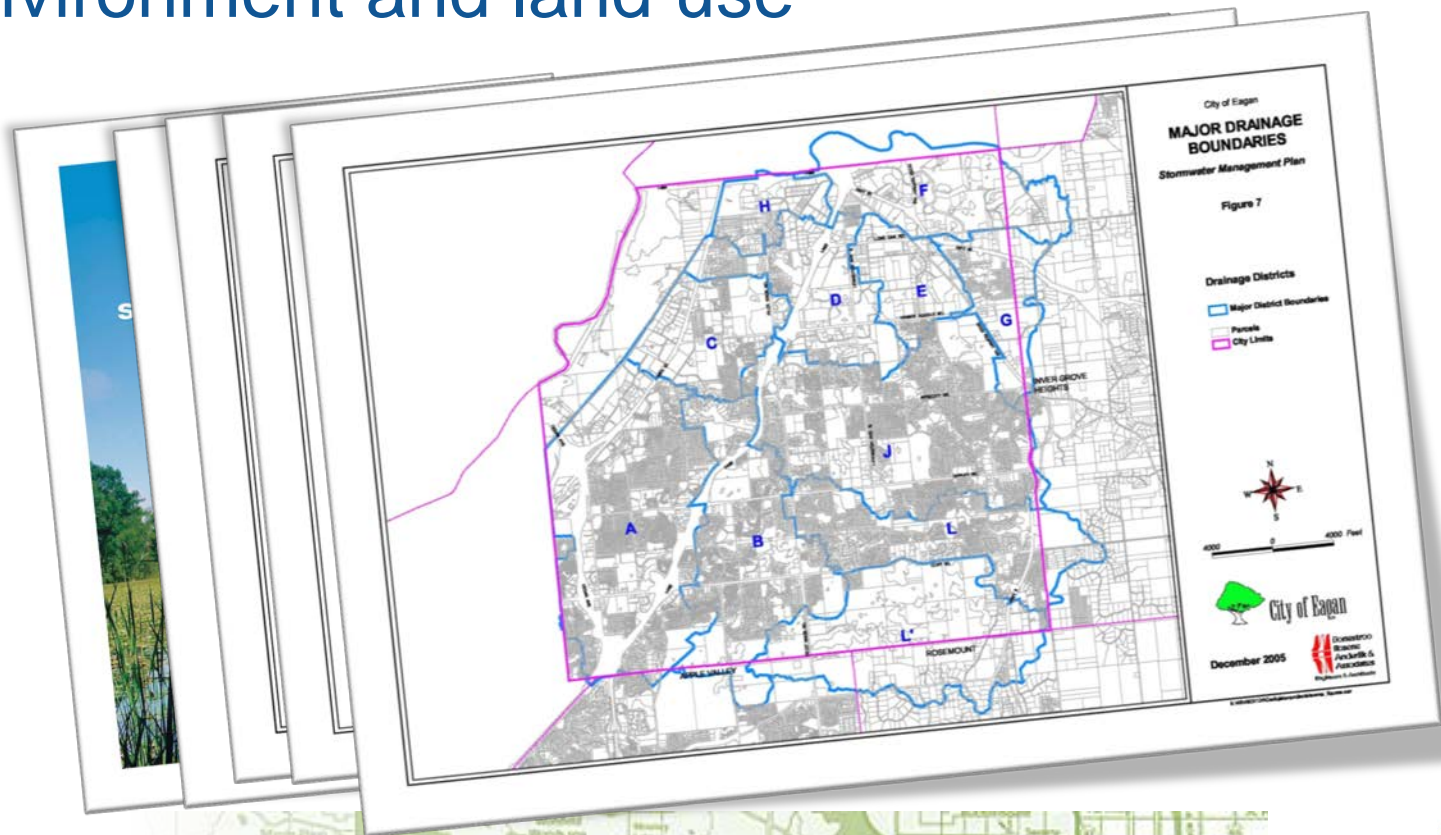
- ✓ Description of existing and proposed physical environment and land use





Minimum Plan Requirements

- ✓ Description of existing and proposed physical environment and land use





Enhancing Your Plan

- ✓ Description of existing and proposed physical environment and land use
 - Climate
 - Precipitation
 - Topography
 - Soils
 - Geology
 - Water quality and quantity info
 - Groundwater resources
 - Stormwater systems
 - Habitat
 - Rare and endangered species
 - Water-based recreation areas





Minimum Plan Requirements

- ✓ Assessment of existing or potential water resource-related problems





Minimum Plan Requirements

- ✓ Assessment of existing or potential water resource-related problems





Minimum Plan Requirements

- ✓ Assessment of existing or potential water resource-related problems





Minimum Plan Requirements

- ✓ Assessment of existing or potential water resource-related problems



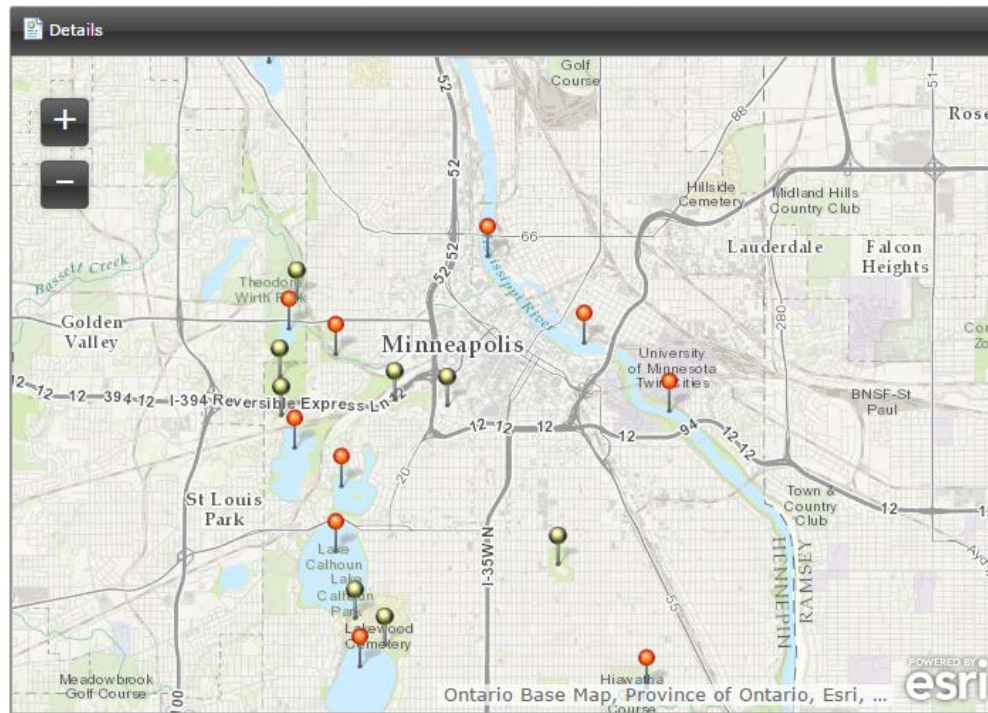


Minimum Plan Requirements

- ✓ Assessment of existing or potential water resource-related problems

Impaired Water Bodies

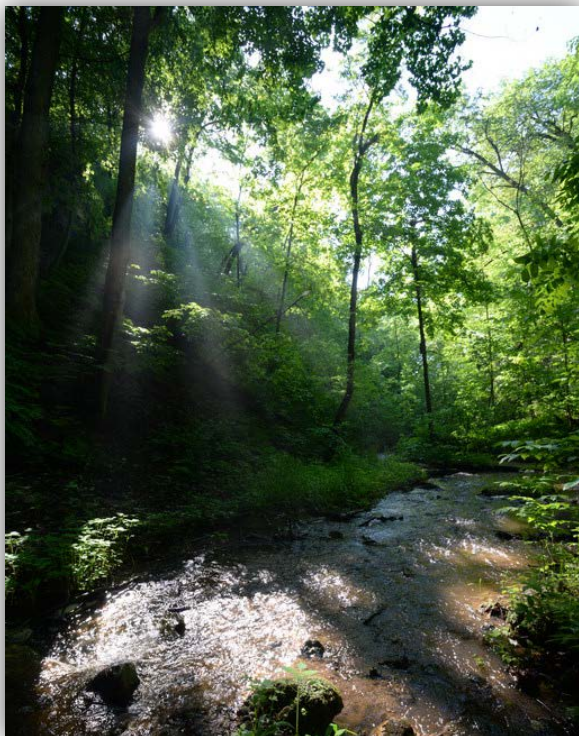
The map below shows Minneapolis water bodies. Red pins indicate an impairment and green pins indicate no impairment.





Enhancing Your Plan

✓ Assessment of existing or potential water resource-related problems



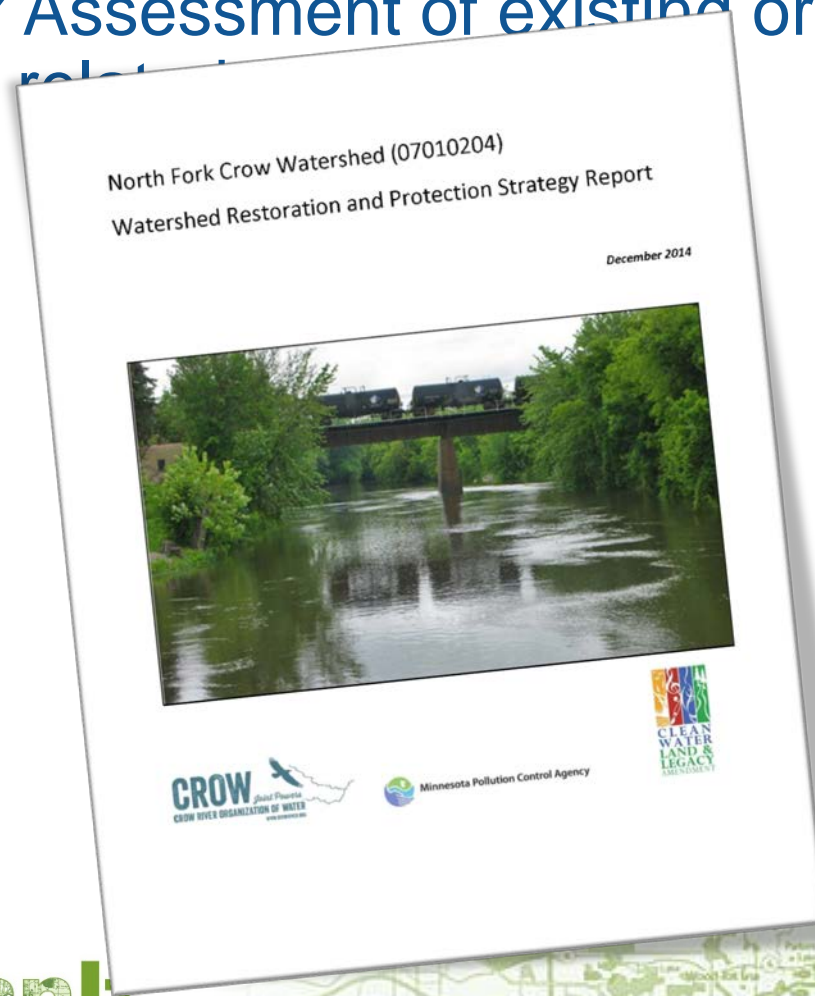
- TMDLs and WRAPS
- Thermal pollution to designated trout streams
- Protection of special waters





Enhancing Your Plan

✓ Assessment of existing or potential water resource-related



- TMDLs and WRAPS
- Thermal pollution to designated trout streams
- Protection of special waters





Enhancing Your Plan

✓ Assessment of existing or potential water resource-related problems



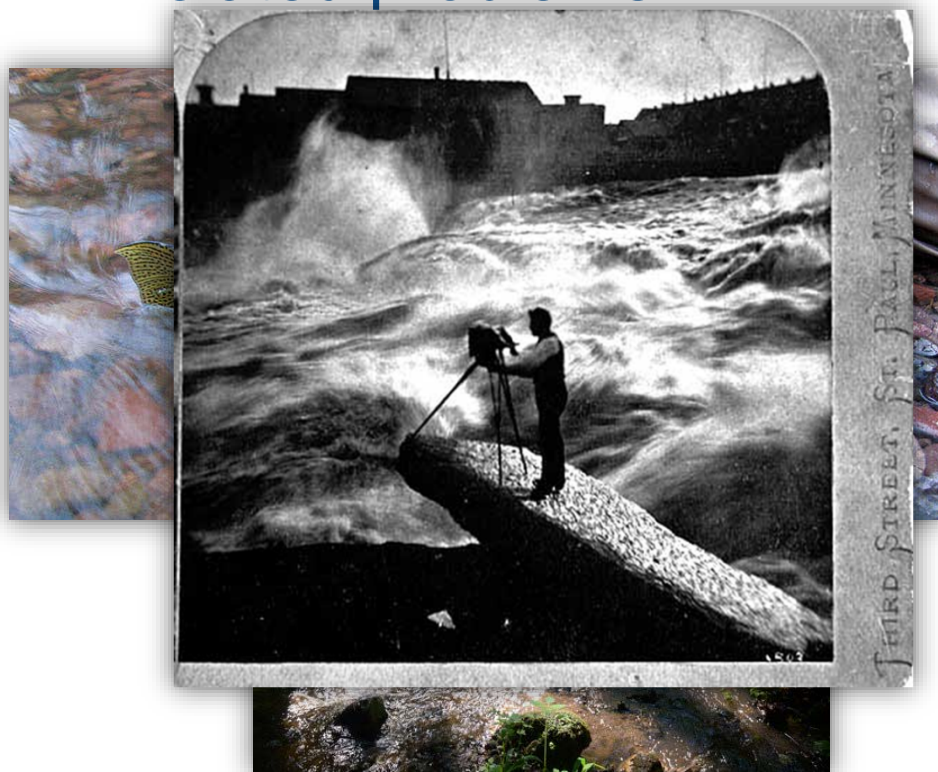
- TMDLs and WRAPS
- Thermal pollution to designated trout streams
- Protection of special waters





Enhancing Your Plan

✓ Assessment of existing or potential water resource-related problems



- TMDLs and WRAPS
- Thermal pollution to designated trout streams
- Protection of special waters





Minimum Plan Requirements

- ✓ A local implementation program





Minimum Plan Requirements

- ✓ A local implementation program





Minimum Plan Requirements

- ✓ A local implementation program



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Minimum Plan Requirements

- ✓ A local implementation program





Minimum Plan Requirements

✓ A local implementation program



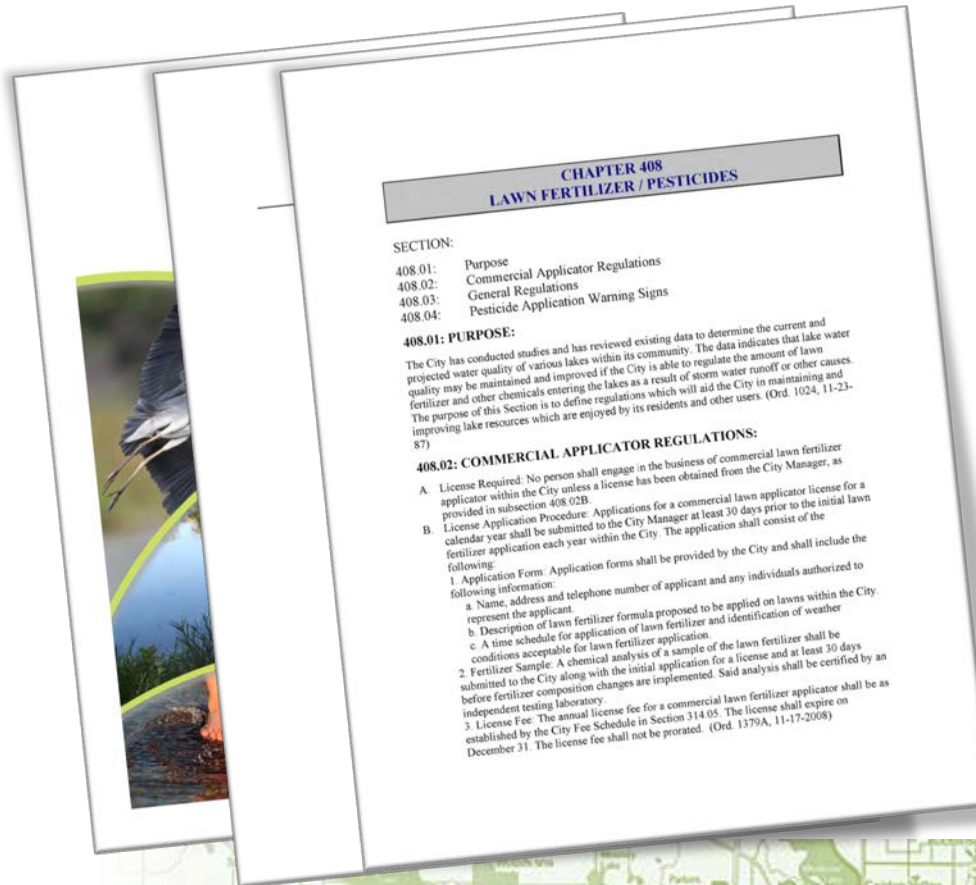
PlanIt





Minimum Plan Requirements

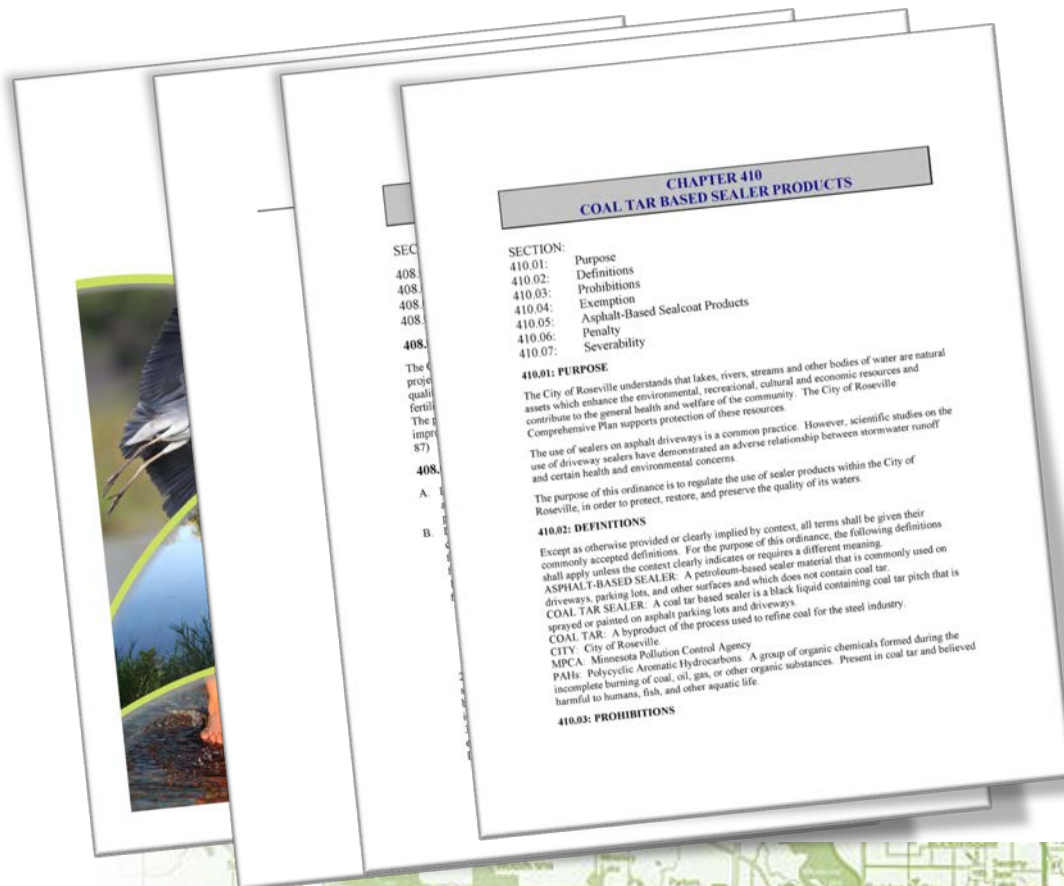
✓ A local implementation program





Minimum Plan Requirements

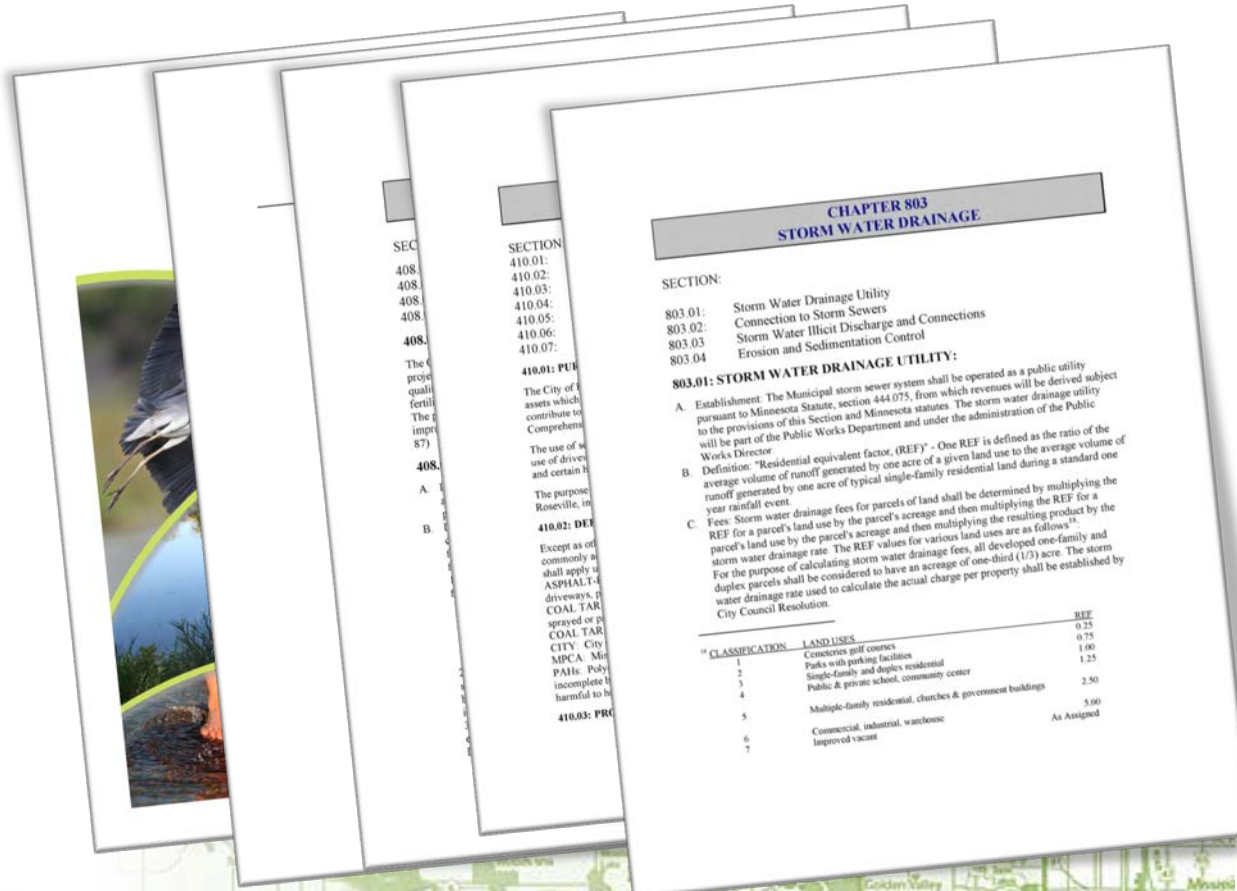
✓ A local implementation program





Minimum Plan Requirements

✓ A local implementation program





Minimum Plan Requirements

- ✓ A local implementation program
- Table describing implementation program with:
 - schedule
 - estimated costs
 - funding sources
 - annual budget totals





Minimum Plan Requirements

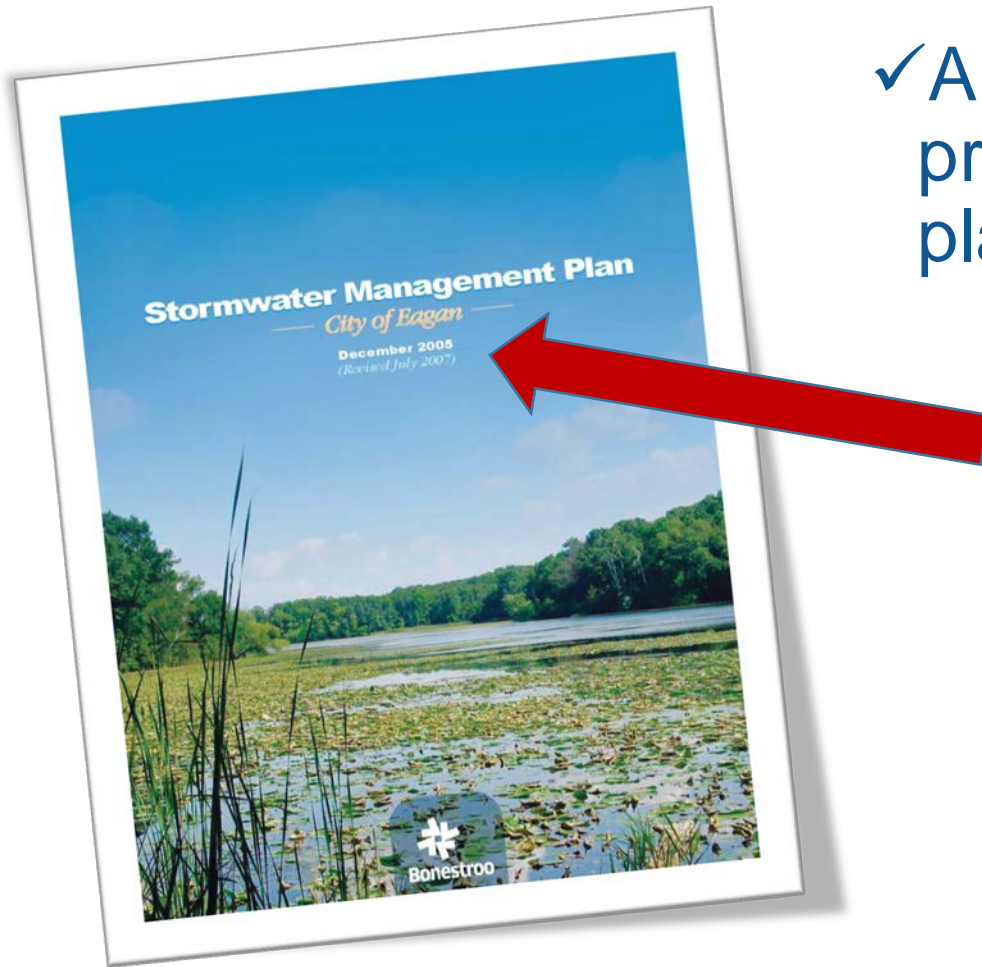
- ✓ A local implementation program
- Capital Improvement Table:
 - schedule
 - estimated costs
 - funding sources





Minimum Plan Requirements

- ✓ Amendment procedures for the plan





Additional Potential Enhancements





Additional Potential Enhancements

- Locations and maintenance schedule for all BMPs
- Methods to control runoff
- Use of NOAA Atlas 14
- Wetland Conservation Act
- Minimal Impact Design Standards (MIDS)
- Minnesota Stormwater Manual
- Stormwater Pollution Prevention Plan (SWPP)





Wastewater



Surface Water



Water Supply





Water Supply



PlanIt

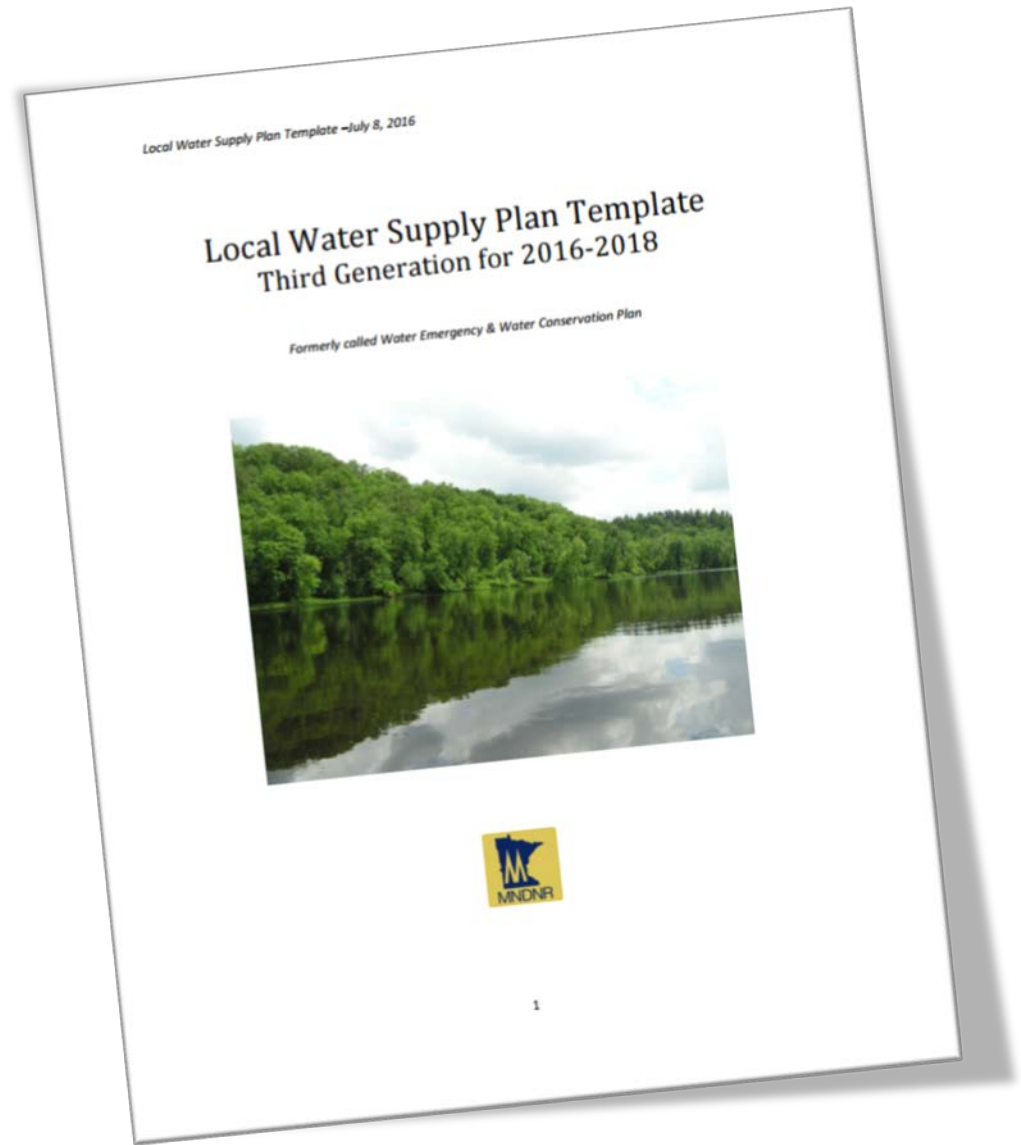




- MN Stat. 473.859
 - Comprehensive Plan Content
- MN Stat. 103G.291
 - Public Water Supply Plans; Appropriation During Deficiency
- Minn. Rules 4720.5280
 - Alternate Water Supply; Contingency Strategy



Local Water Supply Plan Template

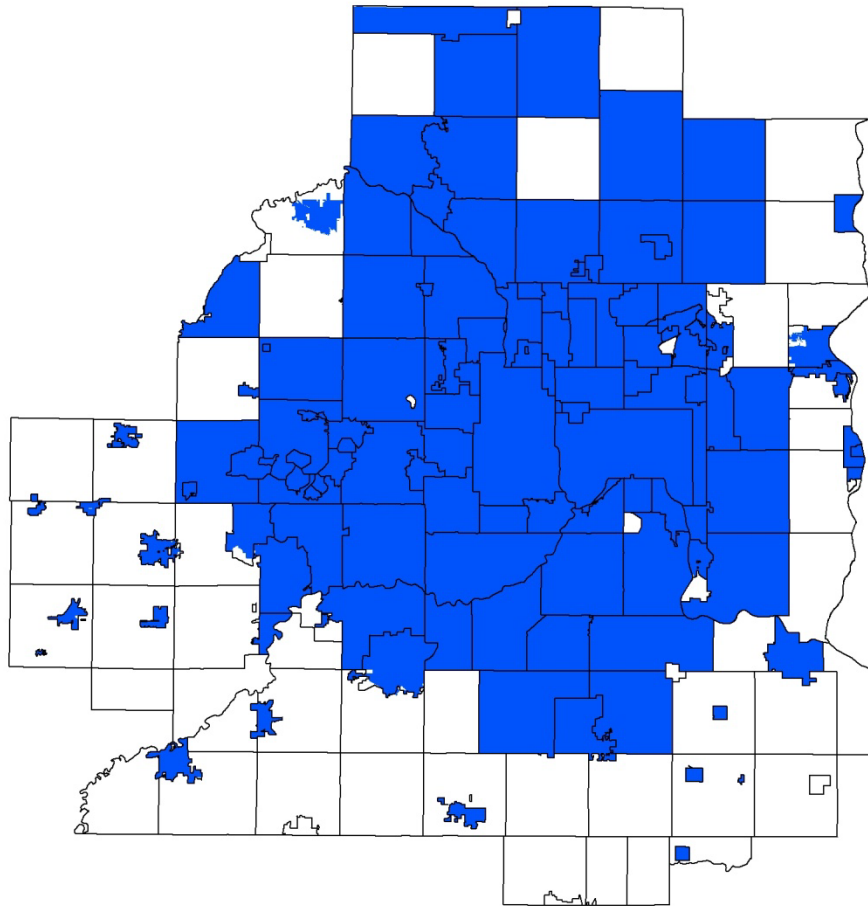


PlanIt

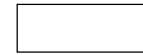




Minimum Plan Requirements



Communities served by municipal public water supplies



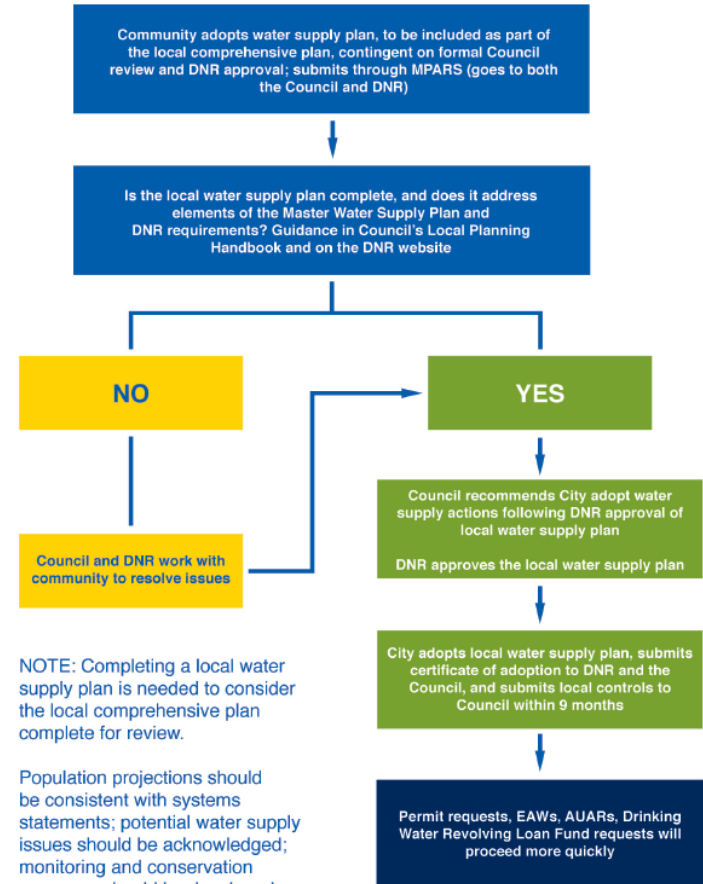
Communities served by private water supplies





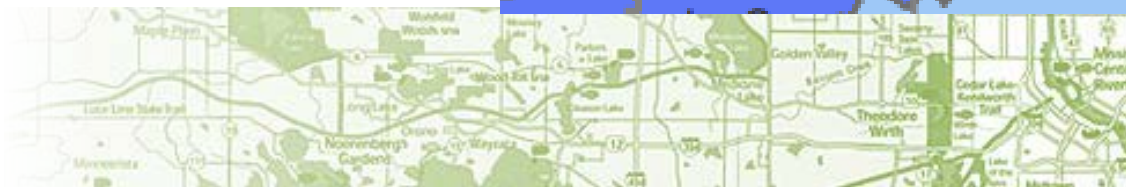
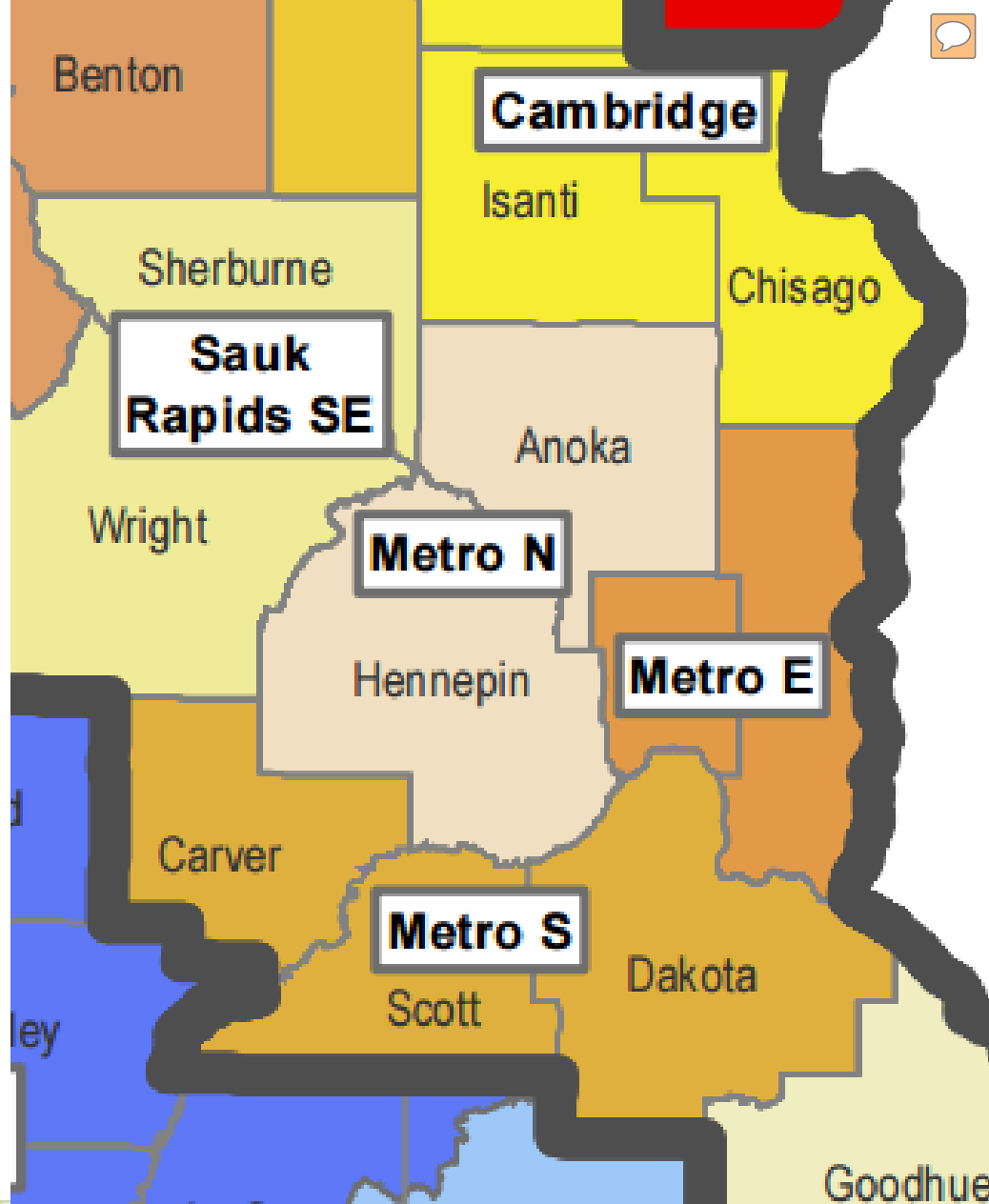
Review and Approval Process

- Plan submitted to both Metropolitan Council and MN DNR
- Reviewed and commented on by the Metropolitan Council.
- Approved by the MN DNR



DNR Hydro

-  **Metro East**
Jenifer Sorensen 651-259-5754
-  **Metro North**
Kate Drewry, 651-259-5753
-  **Metro South**
Jennie Skancke, 651-259-5790





Plans Due Oct. 31, 2016

| | | | |
|------------------|---------------|-----------------------|---------------------|
| Andover | Coon Rapids | Little Canada | Ramsey |
| Anoka | Cottage Grove | Mahtomedi | Rosemount |
| Arden Hills | East Bethel | Marine On St Croix | Roseville |
| Bayport | Forest Lake | Mayer | Savage |
| Blaine | Fridley | Minneapolis | Shoreview |
| Brooklyn Park | Hastings | Mounds View | Spring Lake Park |
| Carver | Hugo | New Brighton | St Francis |
| Centerville | Jordan | Newport | St Paul Park |
| Chanhassen | Lake Elmo | North St Paul | St Paul |
| Chaska | Lakeland | Norwood Young America | Stillwater |
| Circle Pines | Lakeville | Oak Grove | Vadnais Heights |
| Columbia Heights | Lexington | Oak Park Heights | White Bear Lake |
| Columbus | Lino Lakes | Oakdale | White Bear Township |
| | | | Woodbury |





Plans Due Dec. 31, 2017

| | |
|---------------------|---|
| Bloomington | Joint Water Commission - Crystal, Golden Valley, New Hope |
| Brooklyn Center | Loretto |
| Burnsville | Minnetonka Beach |
| Champlin | Minnetrista |
| Dayton | Mound |
| Eagan | New Trier |
| Eden Prairie | Prior Lake |
| Elko New Market | Robbinsdale |
| Excelsior | Shakopee |
| Farmington | Victoria |
| Greenfield | Waconia |
| Inver Grove Heights | |





Plans Due Dec. 31, 2018

| | |
|-----------------|---------------|
| Apple Valley | Orono |
| Belle Plaine | Plymouth |
| Cologne | Randolph |
| Edina | Richfield |
| Empire Township | Rogers |
| Hamburg | Shorewood |
| Hampton | South St Paul |
| Hopkins | Spring Park |
| Long Lake | St Bonifacius |
| Maple Grove | St Louis Park |
| Maple Plain | Tonka Bay |
| Medina | Vermillion |
| Minnetonka | Watertown |
| New Germany | Wayzata |



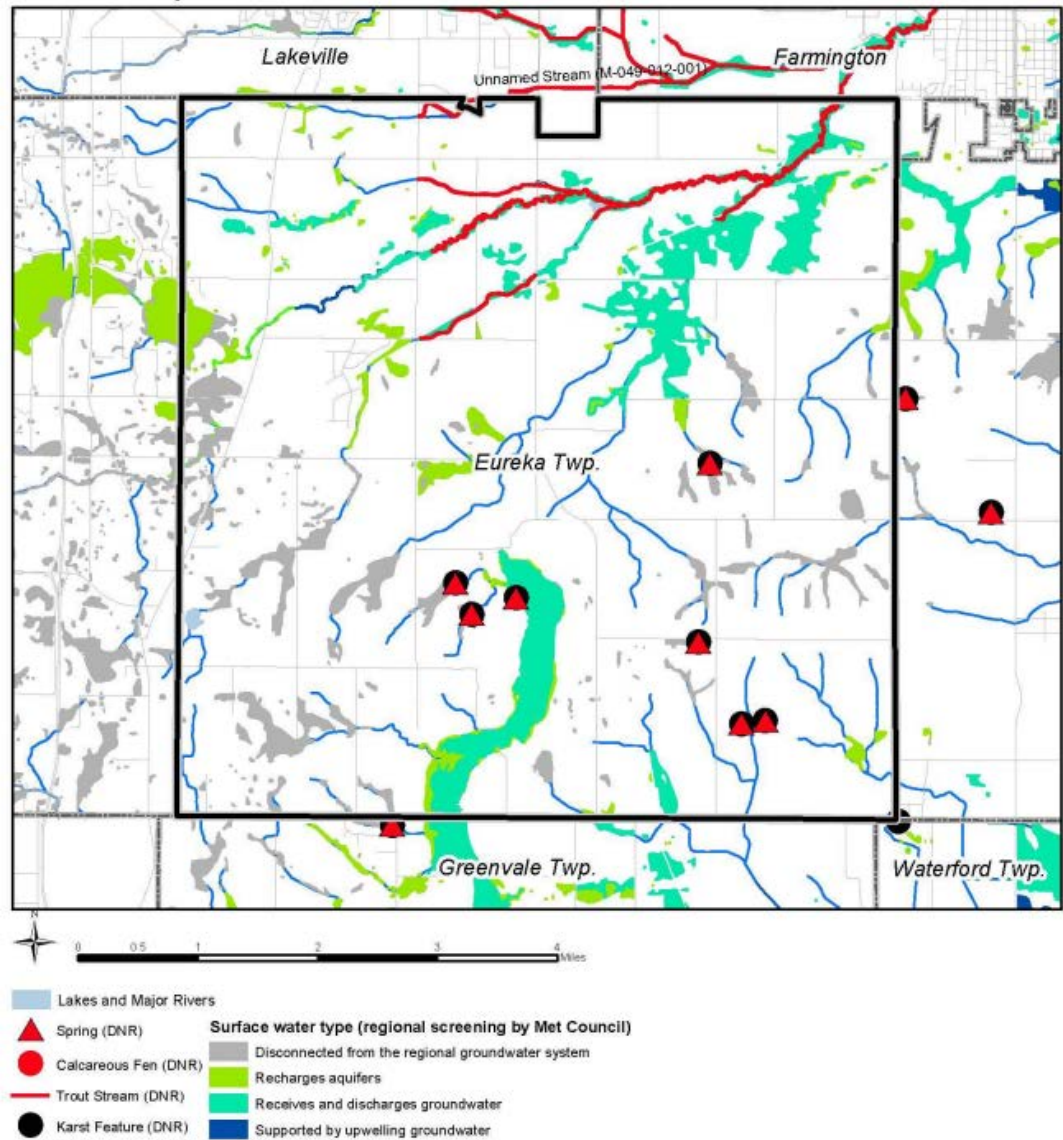


Minimum Requirements for Communities with Public Water Supplies

- The complete local water supply plan template
- Extended water demand projections
- Information about water supply sources

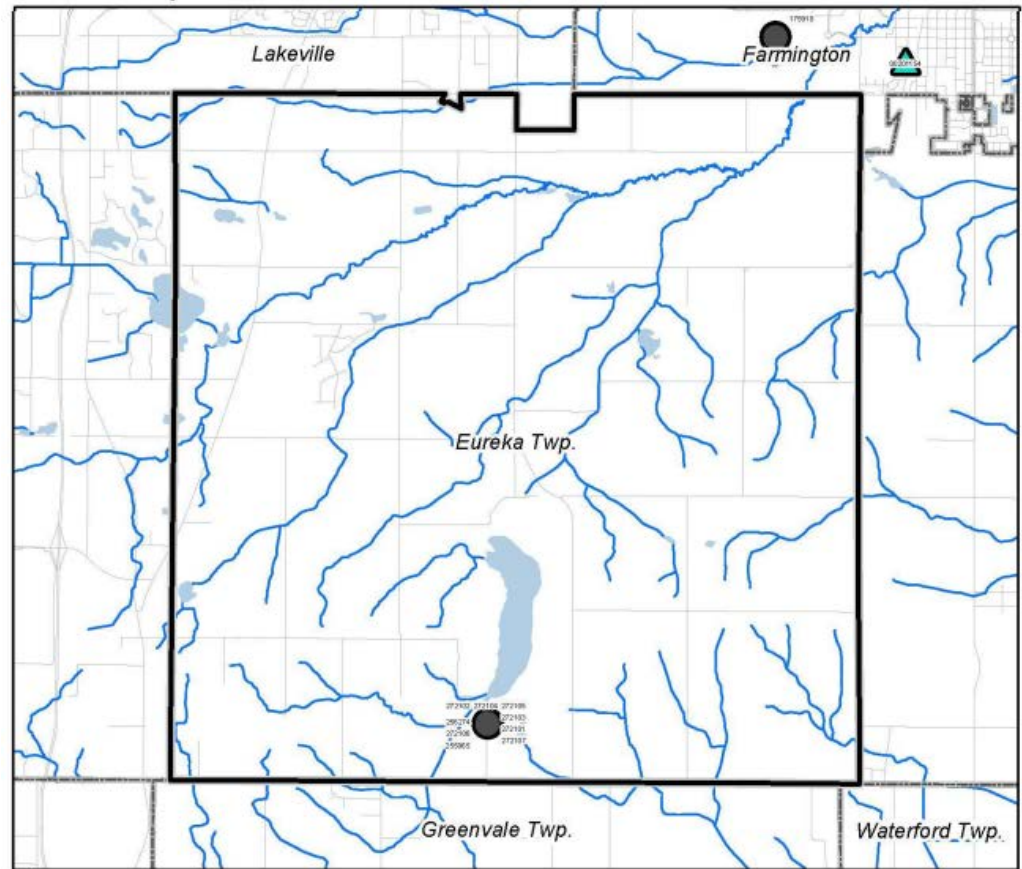


Surface water features and their interaction with the regional groundwater system



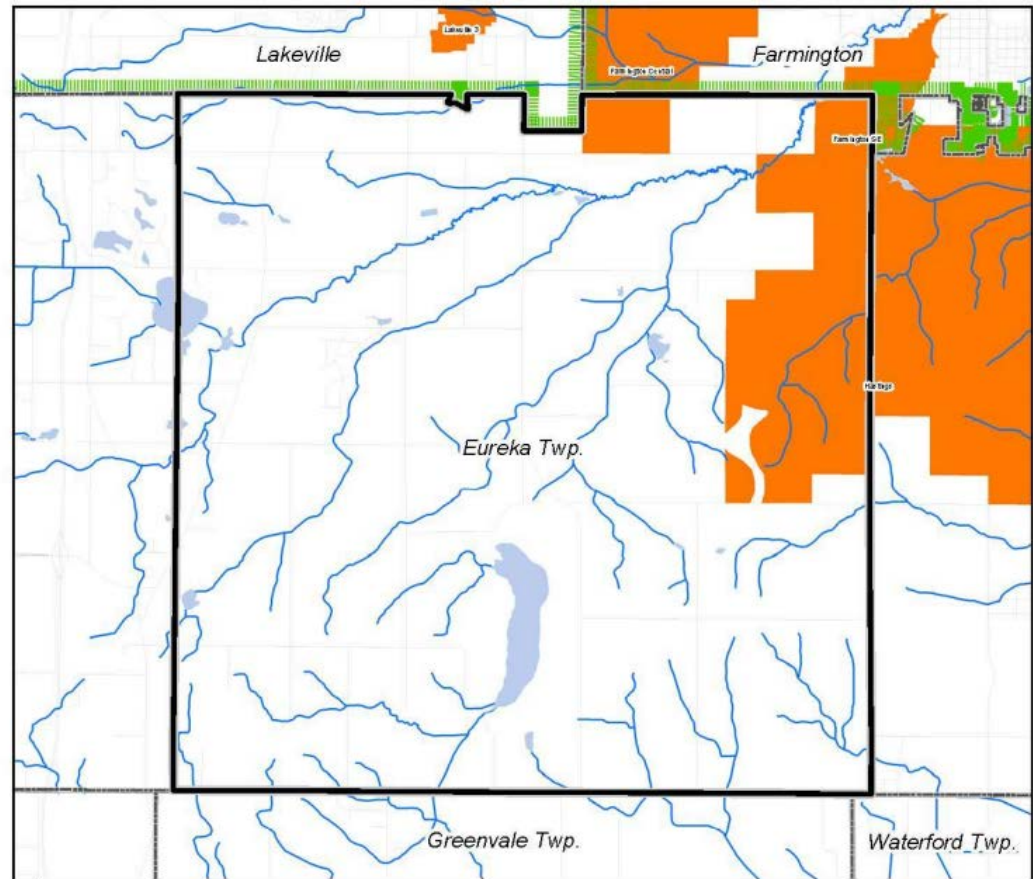


Groundwater level monitoring and aquifer testing





Regulatory and management areas



- Lakes and Major Rivers
- The community's most recent local water supply plan reports that the public water supply system has no interconnections
- The community's most recent local water supply plan reports that the public water supply system has one or more interconnections
- Special Well and Boring Construction Area (MDH)
- North and East Metro Groundwater Management Area (DNR)
- Moderate to Highly Vulnerable Drinking Water Supply Management Area (MDH)
- Drinking Water Supply Management Area for Minneapolis/St. Paul





All Communities – Get More Out of Your Plan

- Water Conservation & Reuse
- Assessing & Protecting Source Water
- Sub-regional Collaboration



- ❖ LOCAL WATER SUPPLY PLAN FOR MUNICIPAL PUBLIC WATER SUPPLIERS
- ❖ FOR COMMUNITIES WITHOUT MUNICIPAL PUBLIC WATER SUPPLIES
- ❖ FOR COMMUNITIES WITH PUBLIC WATER SUPPLY SYSTEMS OWNED BY ANOTHER ENTITY
- ❖ WATER CONSERVATION & REUSE
- ❖ ASSESSING & PROTECTING SOURCE WATER
- ❖ SUB-REGIONAL COLLABORATION

Water supplies cross political boundaries and partnerships are needed to effectively manage diverse needs. Many work groups are forming across the region to share information and lessons learned.

Minimum Requirements:

- If the community has a municipal community public water supply system, complete all information in the **DNR & Metropolitan Council water supply plan template**. Information must be submitted in the template provided and submitted through the **MnDNR Permit and Reporting System (MPARS)**.



Get More Out of Your Plan:

- Work with others to share information about water supply-related issues, so that community water supply planning needs are also supported by neighboring and overlapping plans (watershed plans, wellhead protection plans, local water supply plans, Groundwater Management Area plans, etc.).

We Can Help!

- Review potential water supply issues on your sub-region, county, or watershed water supply profile ([Appendix 1 of the Master Water Supply Plan](#)) or on an interactive water supply map theme.
- Consider participating on a [sub-regional water supply workgroup](#).
- [Request technical assistance and/or support for outreach](#).





Enhancing Water Conservation & Reuse

- Identify opportunities for reducing water use
- Set achievable goals
- Explore and support water conservation and efficiency programs





Eden Prairie Example

EDEN PRAIRIE MINNESOTA
 Search... **GO**

COMMUNITY
CITY GOVERNMENT
DOING BUSINESS
AMENITIES
I WANT TO...

Living Green

- 20-40-15 Initiative
- Conservation Commission
- Environmental Learning Center
- Garbage and Recycling
- GreenStep Cities
- Groundwater and Drinking Water
- Managing Our Water Resources
- Mayors' Climate Protection Award
- Water Conservation Rebate Programs**
 - Clothes Washer Rebates
 - Faucet and Showerhead Rebates
 - Irrigation Rebates
 - Landscaping Rebates
 - Pervious Pavement Rebates
 - Toilet Rebates
 - Related Links

Community » Living Green

WATER CONSERVATION REBATE PROGRAMS

Font Size: [+](#) [-](#) [Share & Bookmark](#) [Feedback](#) [Print](#)

Since 2000, the City of Eden Prairie has offered rebates for residents to promote water conservation. The current program includes rebates for [Energy Star washing machines](#), [WaterSense toilets](#), [WaterSense faucets](#), [WaterSense showerheads](#), [irrigation controllers](#), and the [replacement, repair or audit of an irrigation system](#).

In addition, [landscaping for water quality rebates](#) are available for construction of infiltration areas such as rain gardens, restoration of shoreland areas or for permeable pavement.

To qualify for rebates, applicants must be Eden Prairie residents and all purchases must be made in the current calendar year.

Rebates are only available to Eden Prairie utility customers with non-delinquent accounts. The product or project must be installed at the address listed on the account. The applicant is responsible for securing any permits necessary for the work, if required. Receipts or invoices must be provided with the application. The receipt and any other information provided with the application must clearly identify the model, date of purchase and the Energy Star or WaterSense program qualification information. For toilet purchases, both the tank and bowl must have the WaterSense label. Rebate funds are limited. Applications are processed in order of receipt.

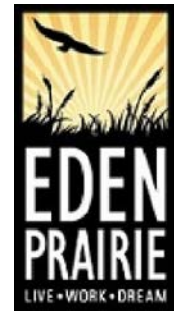
REBATE PROGRAMS

| | |
|---|---|
| Clothes Washer Rebates | Landscaping for Water Quality Rebates |
| Faucet and Showerhead Rebates | Pervious Pavement Rebates |
| Irrigation Rebates | Toilet Rebates |

[Contact the City's environmental coordinator](#) with questions regarding the City's water conservation rebate programs.



[www.edenprairie.org/ community/ living-green/ water-conservation-rebate-programs](http://www.edenprairie.org/community/living-green/water-conservation-rebate-programs)





Enhancing Source Water Protection

- Acknowledge potential issues
- Determine if available information is adequate
- Work with partners to collect and share information
- Collaborate with neighbors and others to prevent the spread of contamination

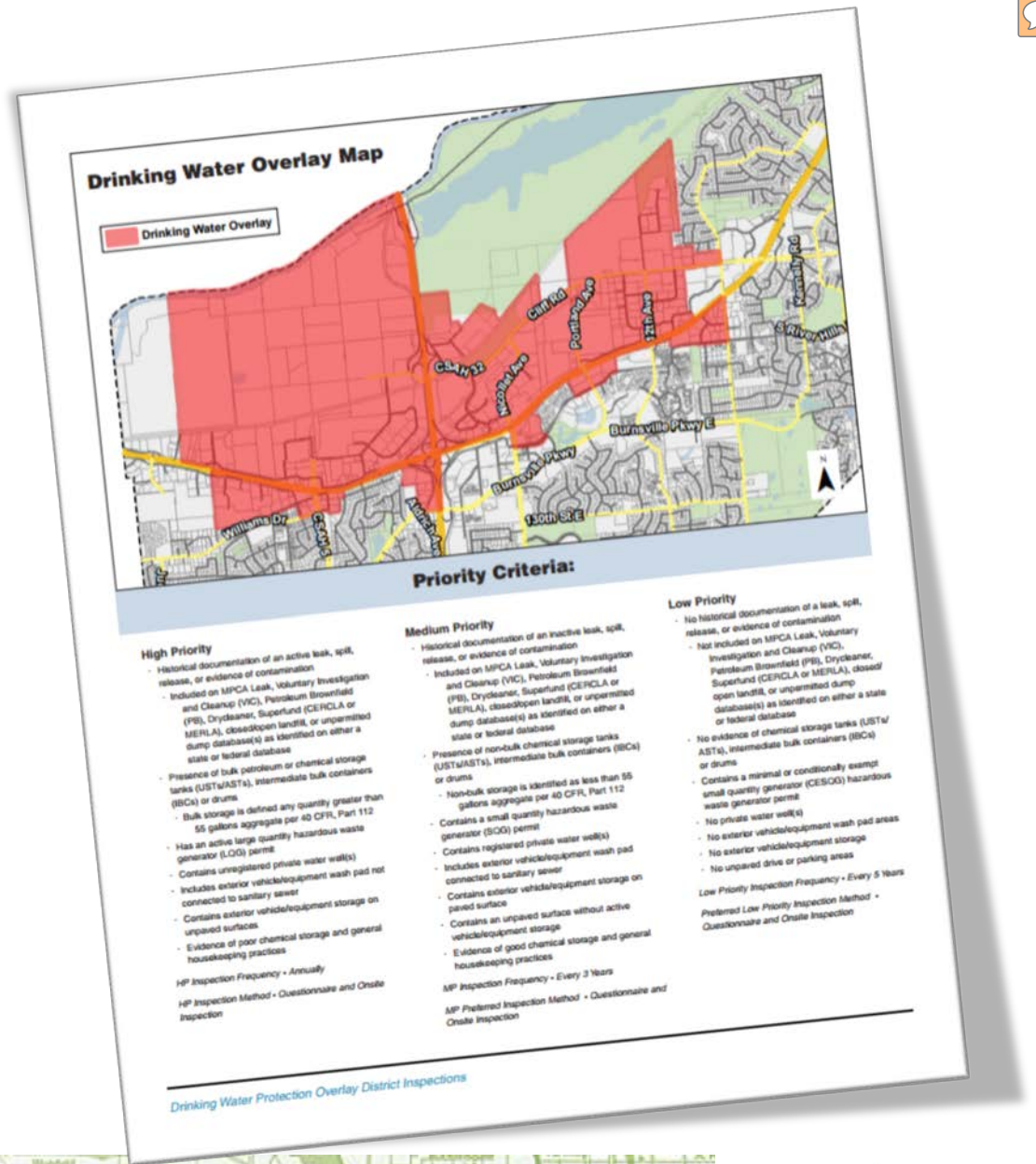


Burnsville Example



<http://www.ci.burnsville.mn.us/index.aspx?NID=1720>

PlanIt





Enhancing Collaboration



PlanIt





Collaboration



Joint Water Commission

serving Crystal, Golden Valley & New Hope

Where does your water come from? How does it get to your tap?

These are questions that often go unasked, as long as the water is there when you need it.

The Joint Water Commission is a joint powers board created by the Cities of Crystal, Golden Valley, and New Hope. Since 1963, the JWC has worked to provide its member cities with a secure, reliable, cost-effective water supply. That commitment remains unchanged, regardless of challenges brought forth by changes in technology, enhanced federal regulations for water quality and safety, and a need for heightened security.

This web site provides JWC customers with information about their water system, how it's managed and funded, the quality of their water, and what the future may hold. Check back often for updates.



JWC Meetings
JWC 2015 Water Quality Report
FAQs

Flub-A-Dub-Dub,
Three Cities In A Tub

Who's Steering

From River To Faucet

Tastes Great...
And It's Safe

Picking Up The Tab

Well, Now What?

About MnWARN

MnWARN Members

News & Events

Member Login

Mutual Aid Agreement

Related Links

Contact Us

Become a
MnWARN
member today!

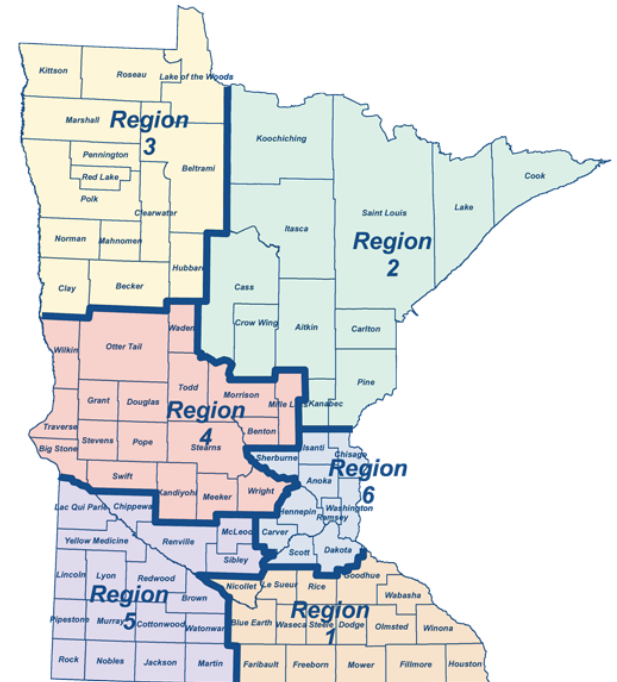
- Updates on news & events
- Access to online resources
- And much more!

>> Click here to sign up!

Contact Us

MnWARN
217 12th Avenue SE
Elbow Lake, MN 56531
Phone: 800-367-6792
info@mnwarn.org

MnWARN Members



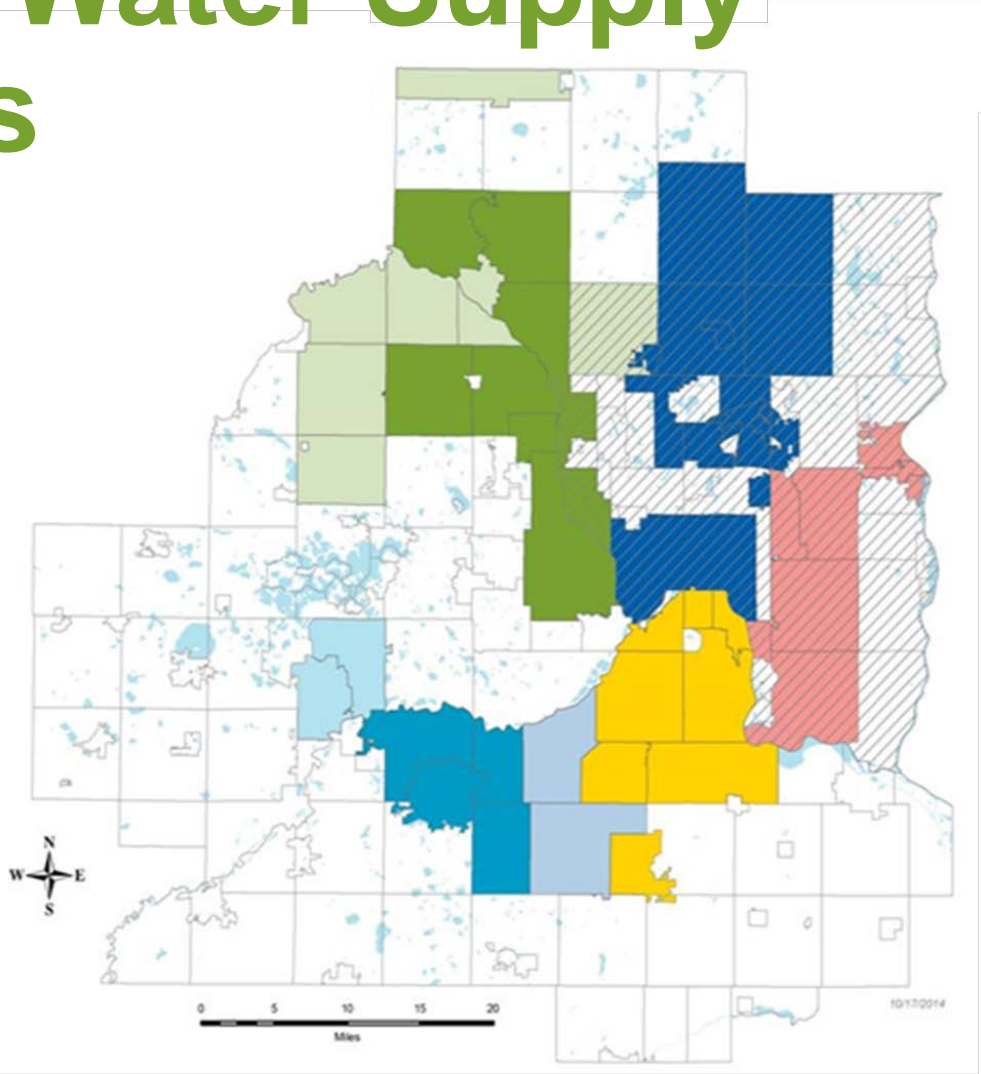
PlanIt





Subregional Water Supply Work Groups

- North East Metro
- South East Metro
 - Dakota County
- North West Metro
- South West Metro
- Washington County Water Coalition
- Seminary Fen
 - Chaska & Chanhassen





WATER CONSERVATION TOOLBOX

Tools

Welcome to the Metropolitan Council Water Conservation Toolbox. On these pages you will find knowledge, ideas, and tools that are tailored to water conservation needs of the Twin Cities area. Staff from the Metropolitan Council has reviewed a wide range of literature, web sites, and calculation tools to find those that are best suited to our local climate and water concerns. Each of the four web pages below offer sources of information to answer common questions such as “Why Conserve?”, “How do I compute my water consumption?”, and “What can I do to conserve at my home or business?”

Step 1 – Select from the list below by answering this simple question: Who are you?



RESIDENTS & BUSINESSES

Information that all of us can use to understand more about our water consumption at home. Businesses will also find sources of information.



SUPPLIERS

Programs and practices that water suppliers could initiate to reduce system water losses, or set conservation rate structures that encourage conservation.



COMMUNITIES

Resources for elected officials, planning departments, and other municipal staff to reference that will assist in incorporating water conservation into local comprehensive plans. Also included is information useful to site plan review staff who are reviewing projects with water conservation features.

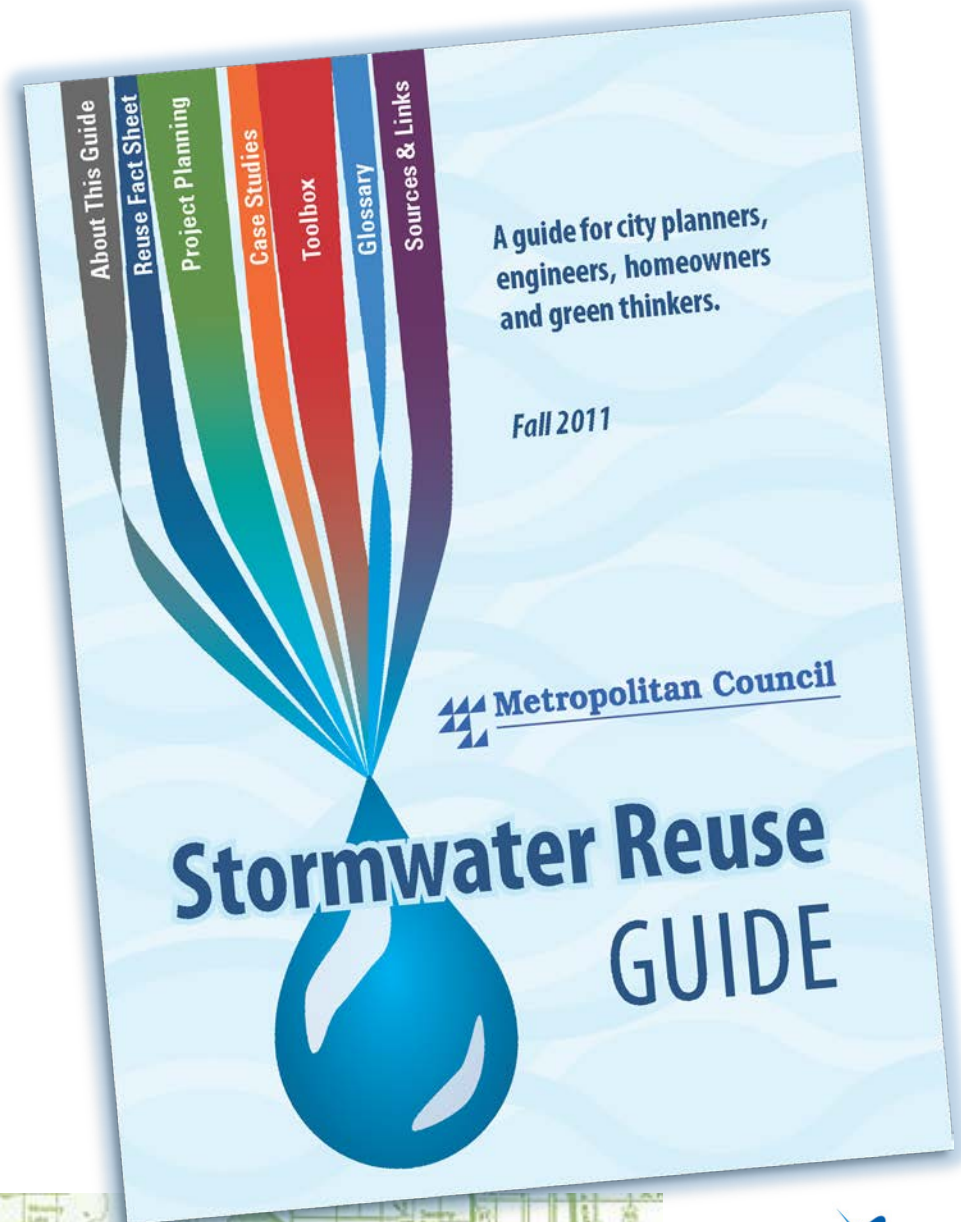


LEARNERS

Games and other fun learning for kids and adults. Includes information for teachers to use to create water conservation learning plans and family focused activity ideas.



Tools





Resources

**LOCAL PLANNING
HANDBOOK**

<http://metro council.org/Handbook.aspx>

PlanIt

<http://www.metro council.org/Handbook/PlanIt.aspx>

**Community
Pages**

<http://lponline.metro council.state.mn.us/commportal>



Questions?

Kyle Colvin, Assistant Manager (Wastewater)

Kyle.Colvin@metc.state.mn.us

Karen Jensen, Environmental Analyst (Surface Water)

Karen.Jensen@metc.state.mn.us

Lanya Ross, Principal Environmental Scientist (Water Supply)

Lanya.Ross@metc.state.mn.us



Upcoming Events

Transportation Overview

Presented by Mark Filipi and Cole Hiniker
Thursday, August 18, 2016

Making your Plan a Walk in the Park

Presented by Jan Youngquist and Michael Peterka
Thursday, September 15, 2016

Transit Planning Basics, Market Areas, and Comprehensive Planning

Presented by Cole Hiniker and Michael Mechtenberg
Thursday, September 22, 2016